

1/44

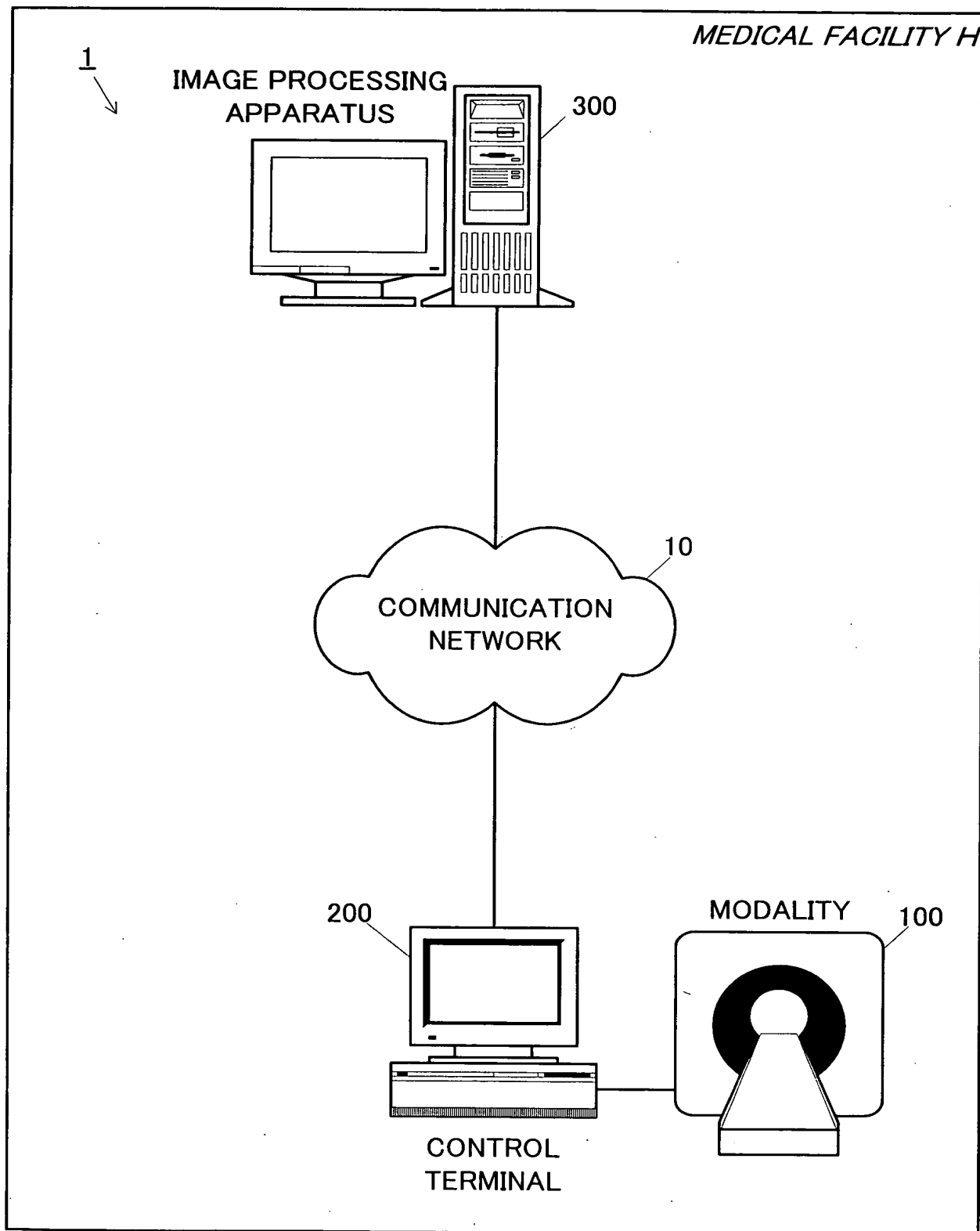


FIG.1

2/44

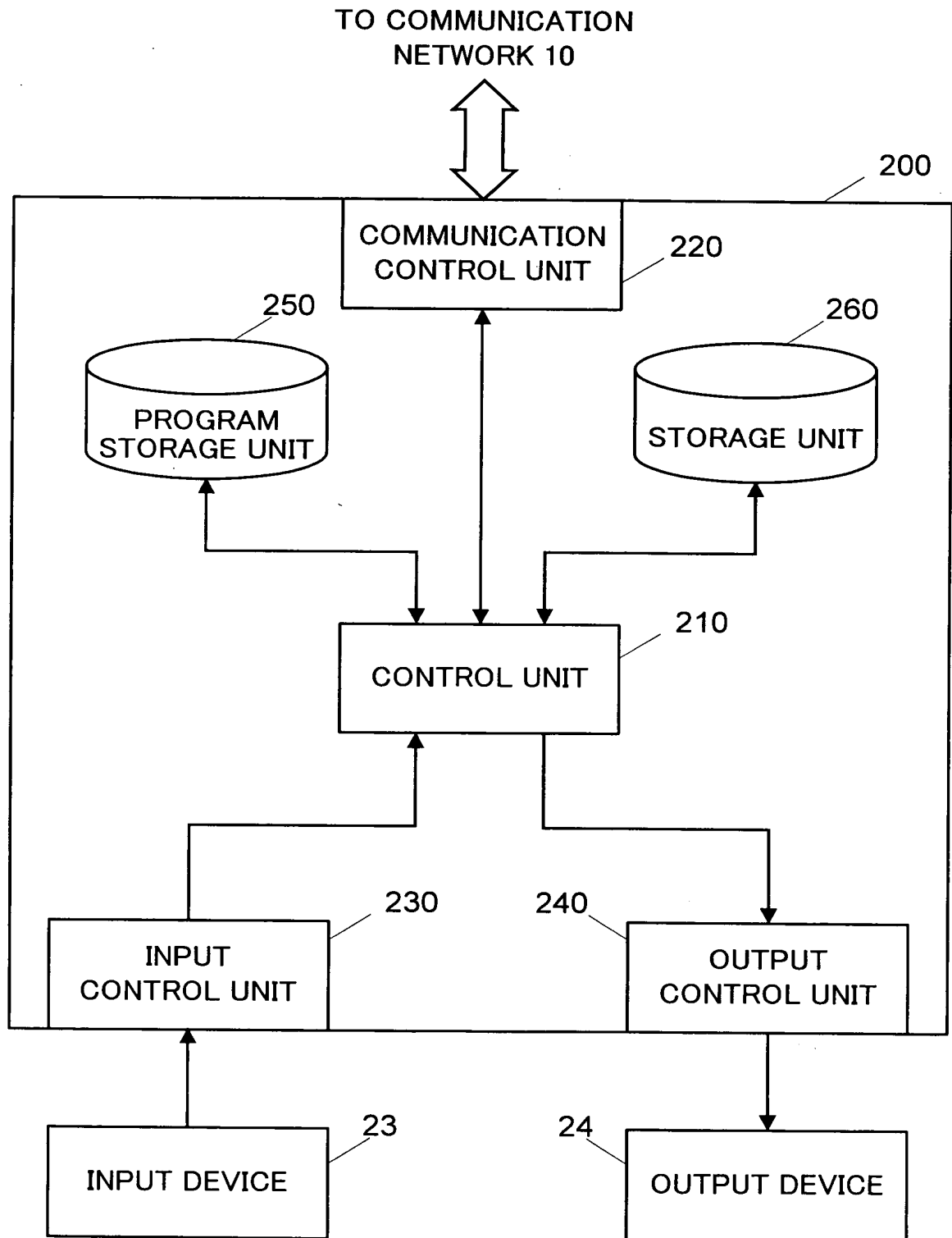
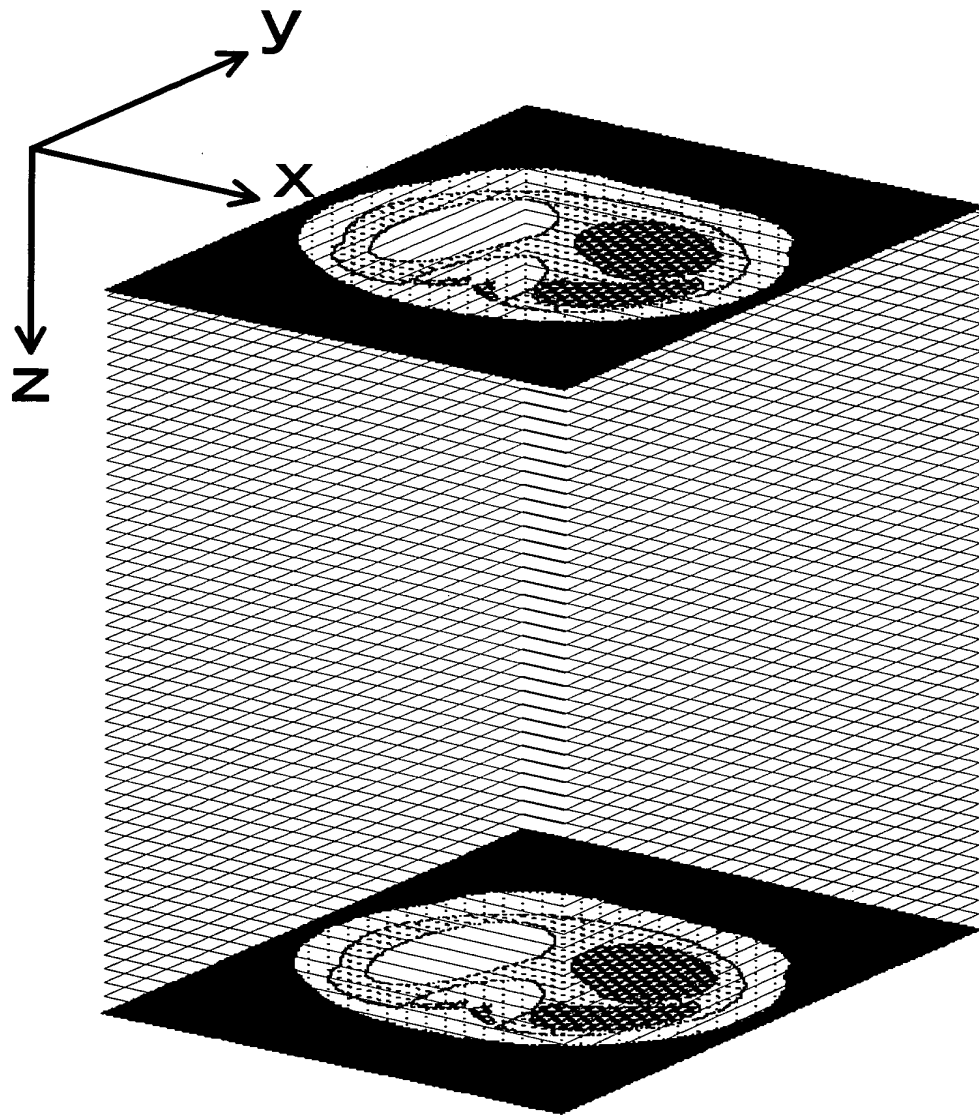


FIG.2

3/44

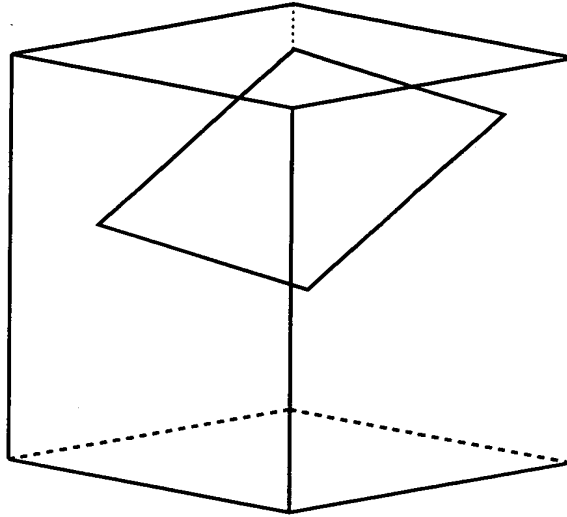


SLICE IMAGE

BEST AVAILABLE COPY

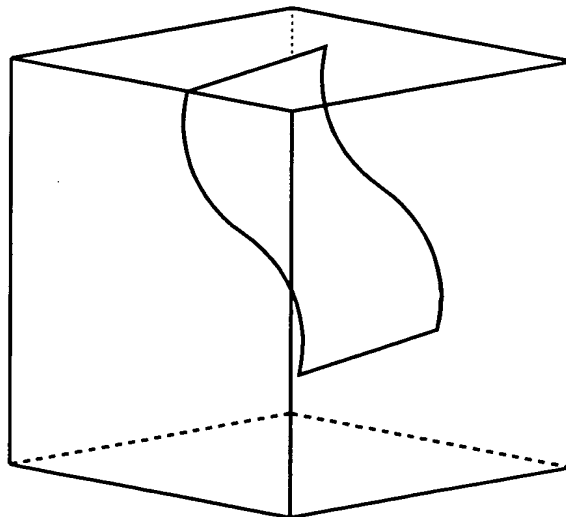
FIG.3

4/44



MPR

FIG.4A



CPR

FIG.4B

5/44

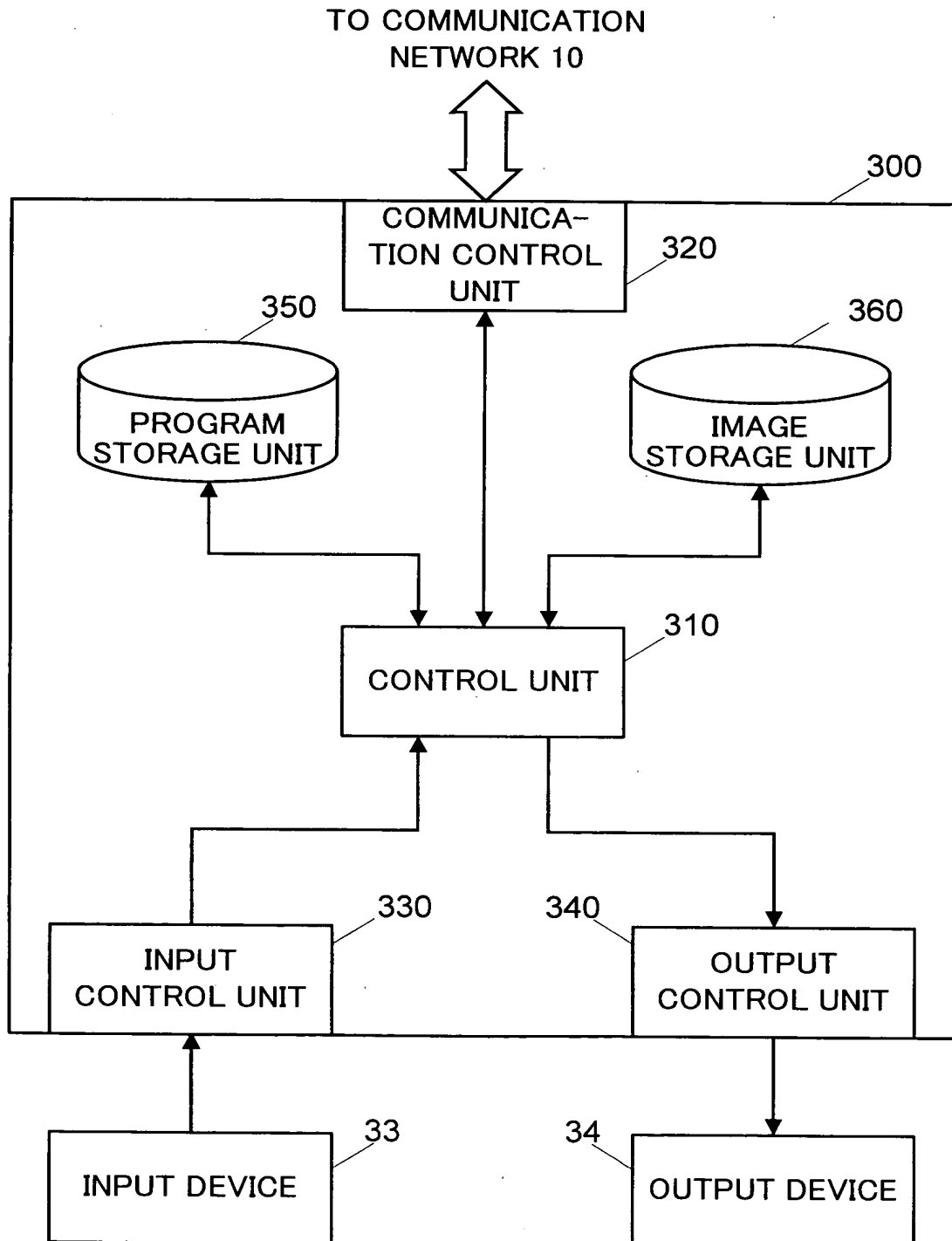


FIG.5

6/44

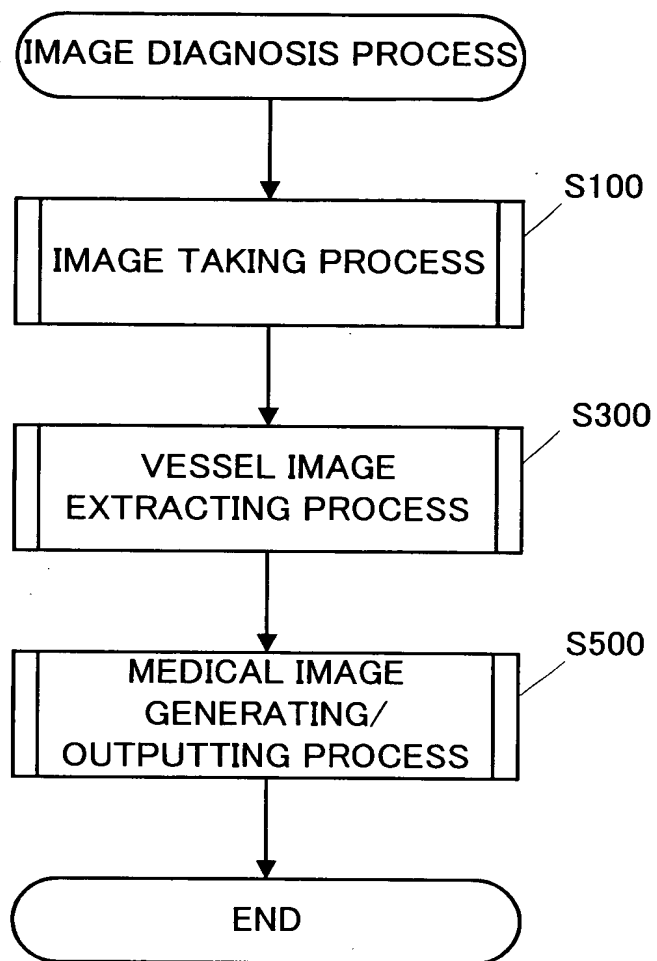


FIG.6

7/44

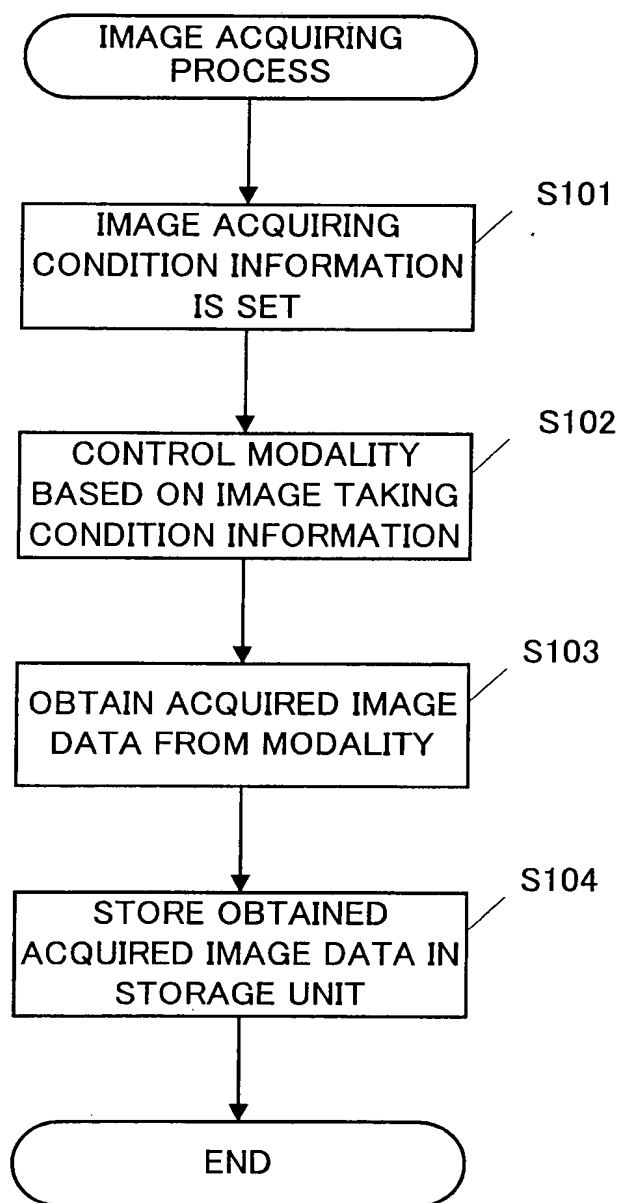


FIG.7

8/44

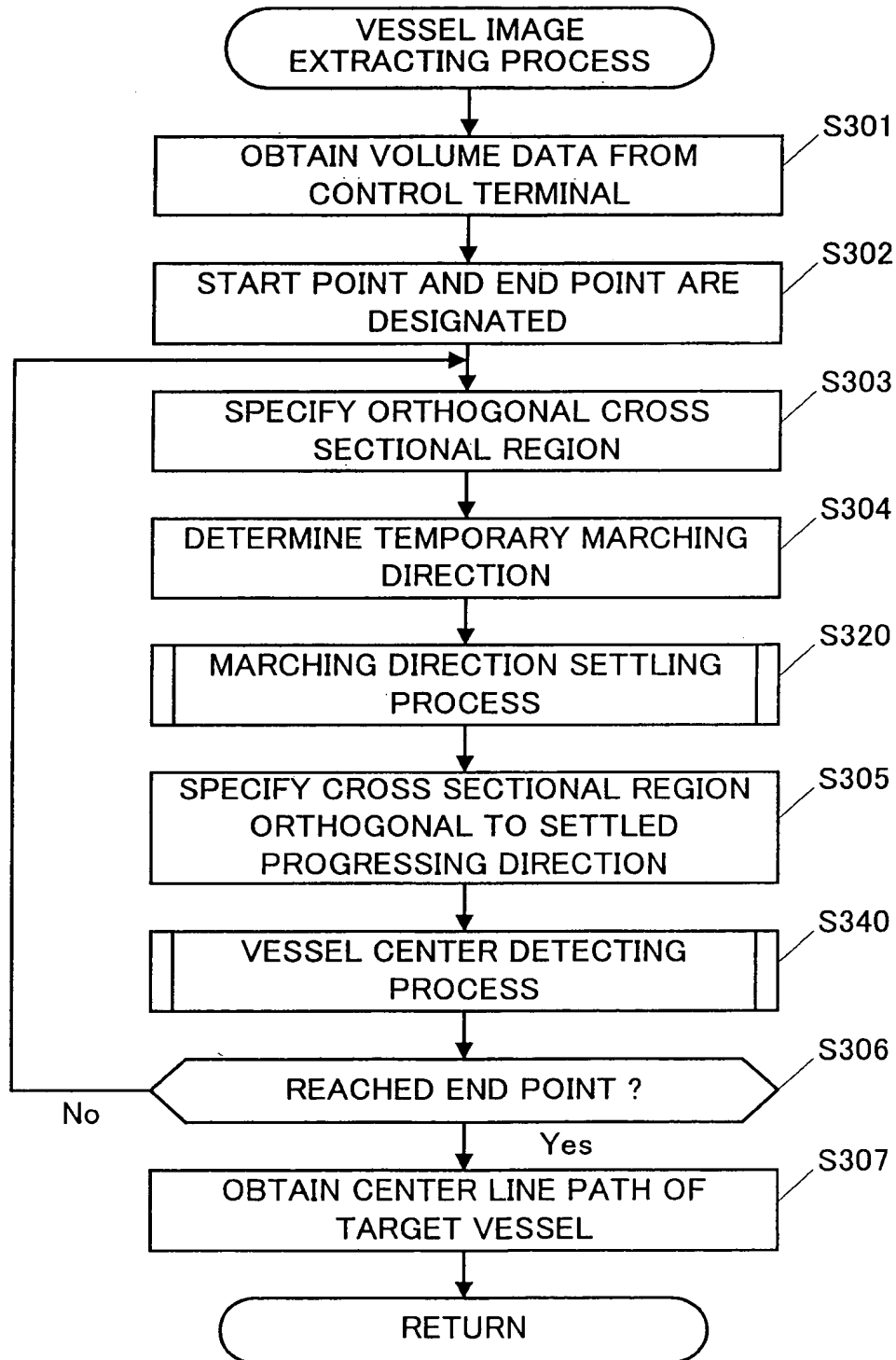


FIG.8

9/44

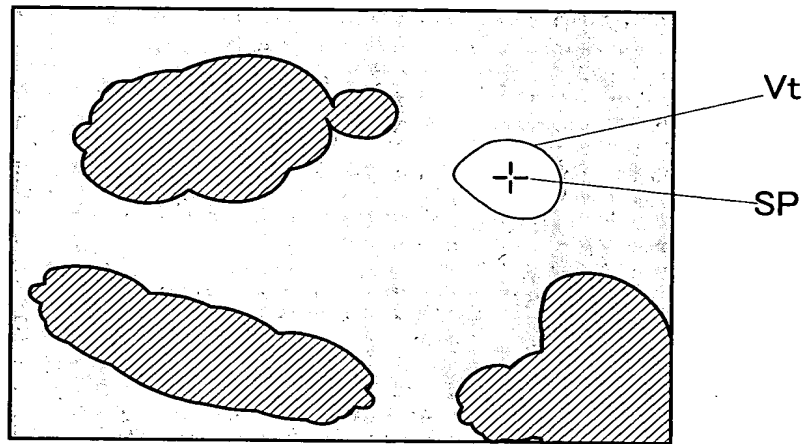


FIG. 9A

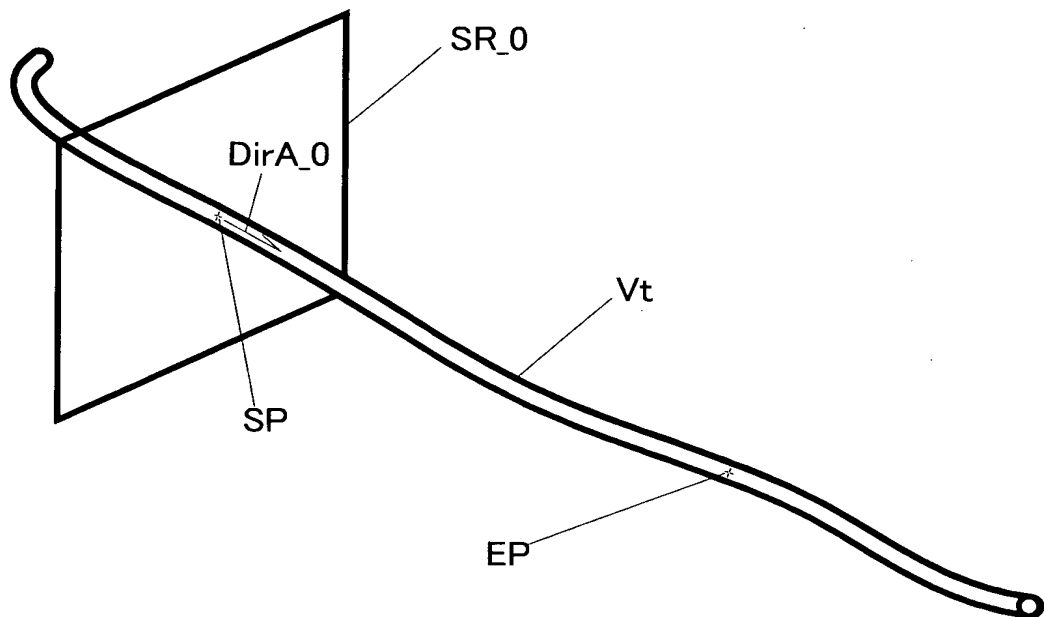


FIG. 9B

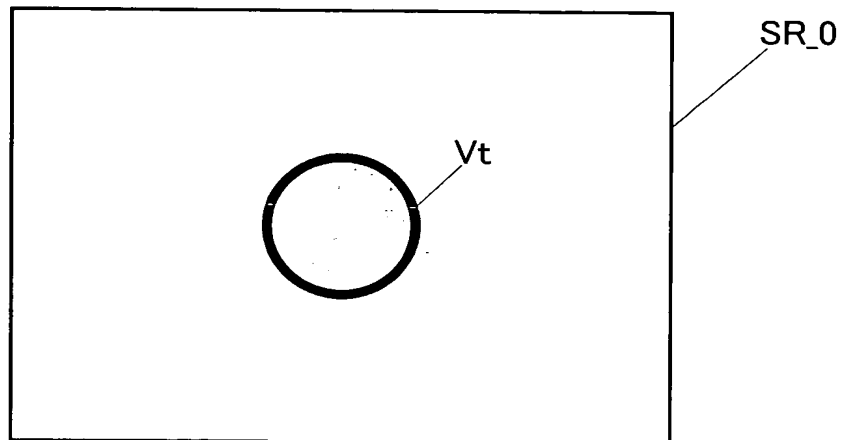


FIG. 9C

10/44

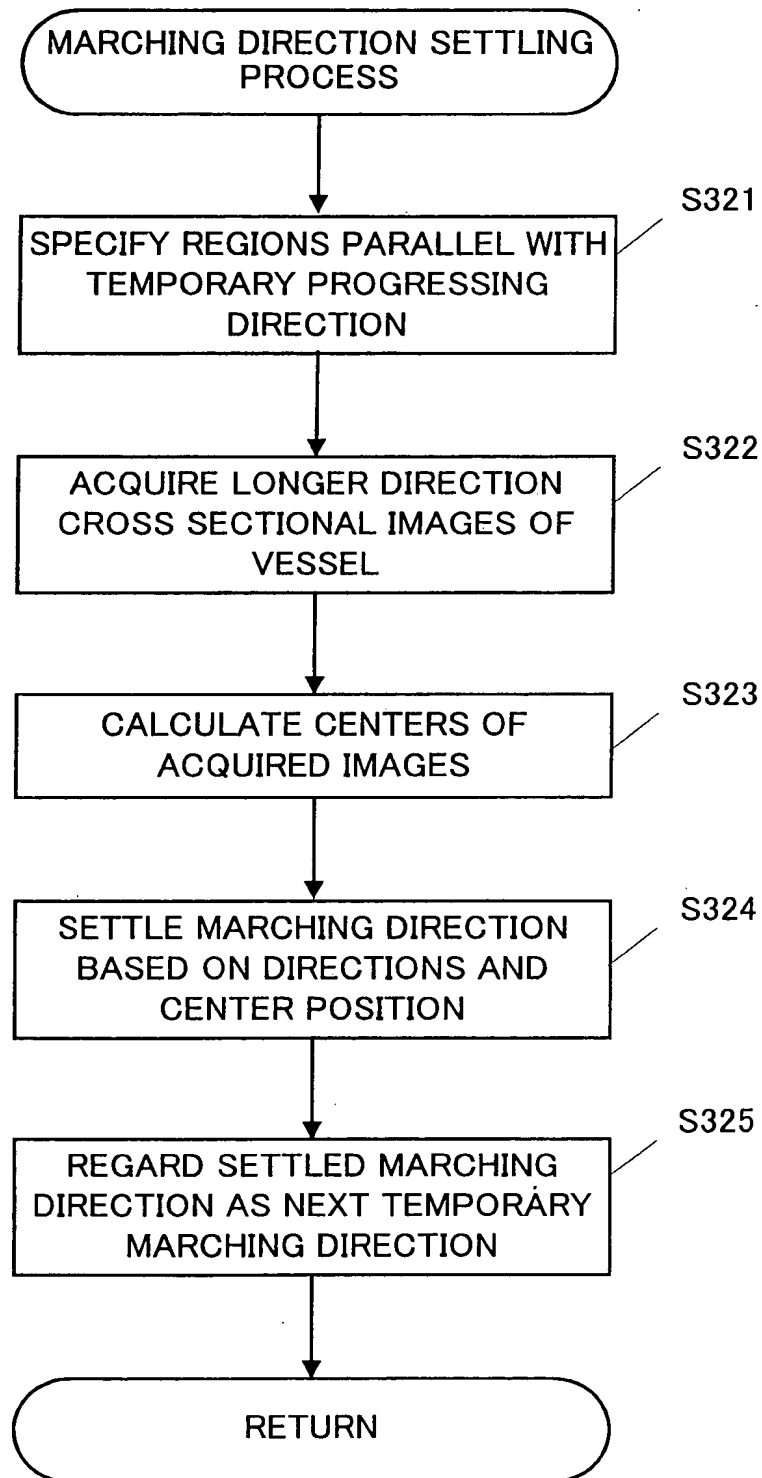


FIG.10

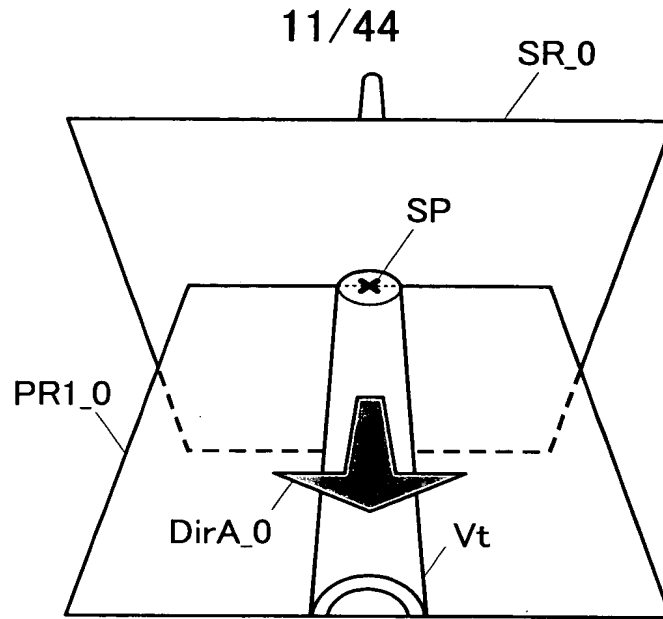


FIG. 11A

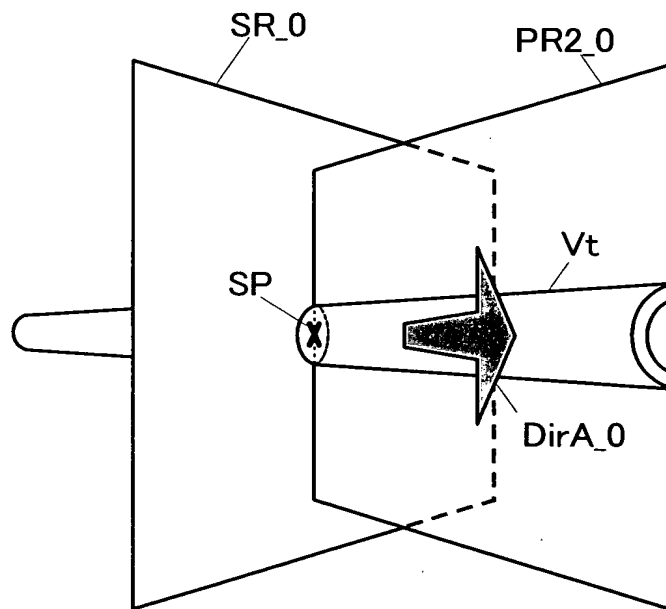


FIG. 11B

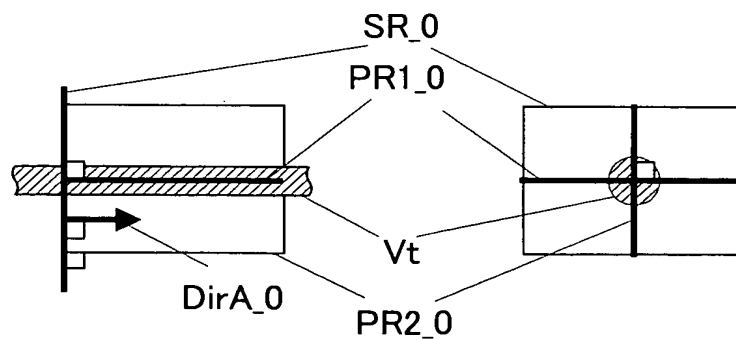


FIG. 11C

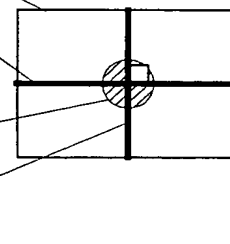


FIG. 11D

12/44

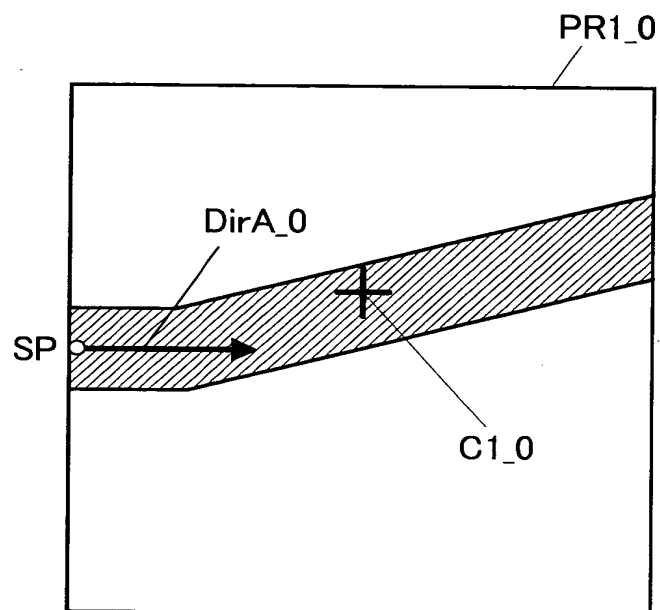


FIG. 12A

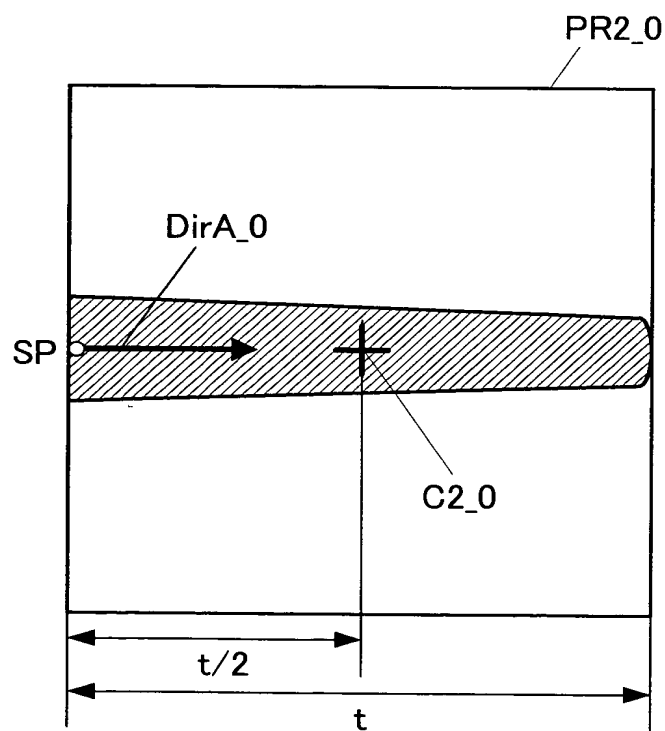


FIG. 12B

13/44

MARCHING (ADVANCING, PROGRESSING) DIRECTION SETTLING FORMULAE

n 1 : UNIT VECTOR PARALLEL TO TEMPORARY MARCHING DIRECTION DirA
 n 2 : UNIT VECTOR PERPENDICULAR TO REGION PR1
 n 3 : UNIT VECTOR PERPENDICULAR TO REGION PR2
 v 2 : POSITION VECTOR OF CENTER POSITION ON REGION PR1
 v 3 : POSITION VECTOR OF CENTER POSITION ON REGION PR2

IN CASE OF $v2 \cdot n1 > v3 \cdot n1$

VECTOR TO NEXT POSITION = $v2' \cdot n1 * n1 + v2' \cdot n3 * n3 + v3 \cdot n2 * n2$

WHERE $v2' = v3 \cdot n1 / v2 \cdot n1 * v2$

IN CASE OF $v2 \cdot n1 \leq v3 \cdot n1$

VECTOR TO NEXT POSITION = $v2 \cdot n1 * n1 + v2 \cdot n3 * n3 + v3' \cdot n2 * n2$

WHERE $v3' = v2 \cdot n1 / v3 \cdot n1 * v3$

(
 • REPRESENTS INNER PRODUCT OF VECTORS
 * REPRESENTS OUTER PRODUCT OF VECTORS
)

FIG.13

14/44

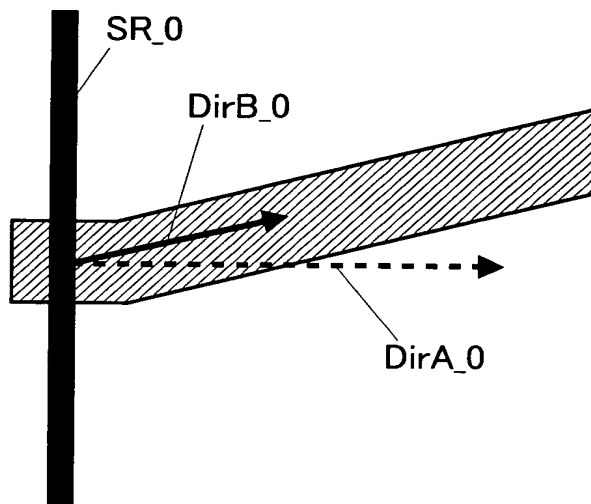


FIG. 14A

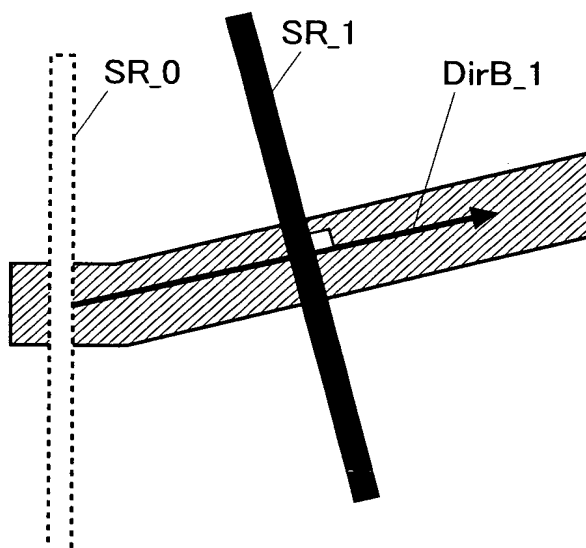


FIG. 14B

15/44

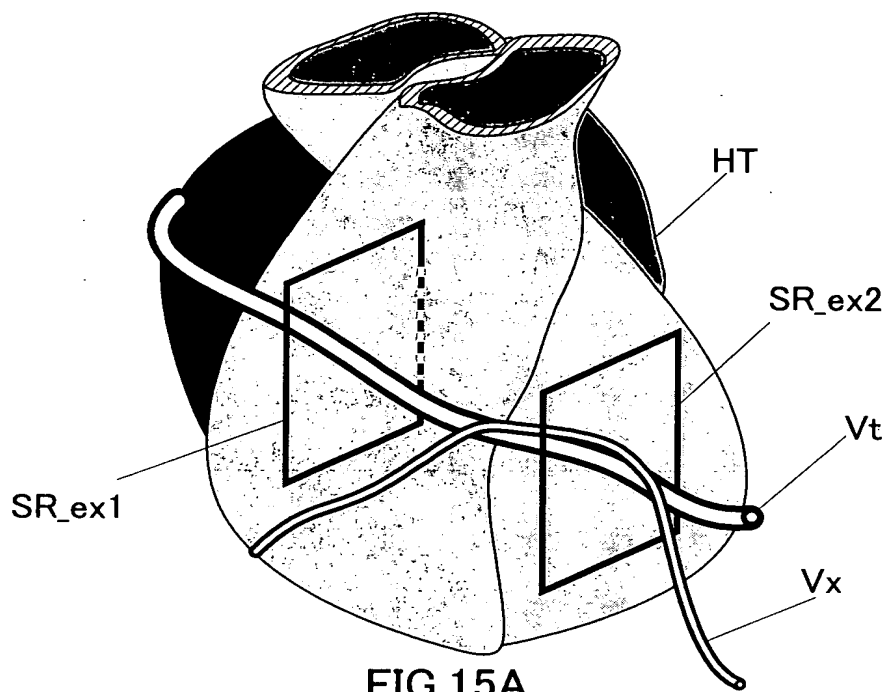


FIG. 15A

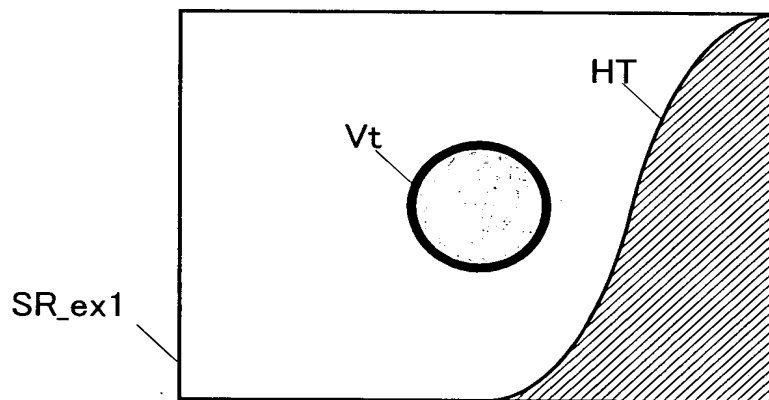


FIG. 15B

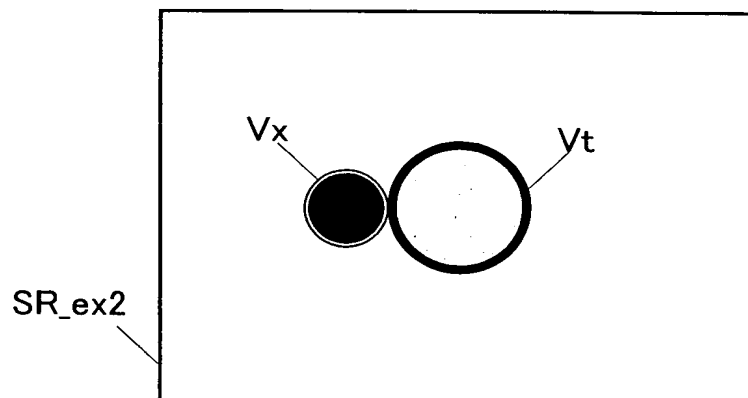


FIG. 15C

16/44

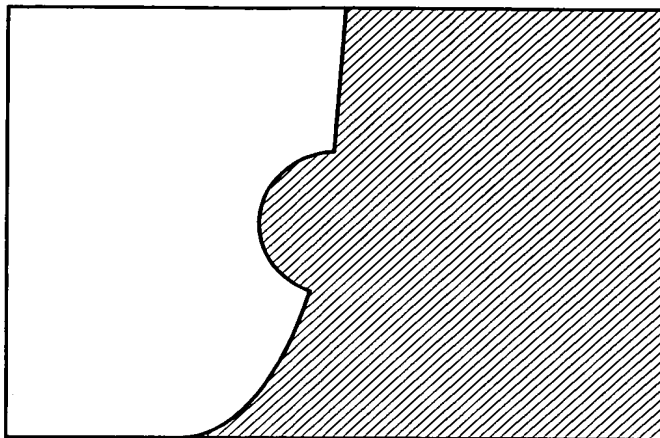


FIG. 16A

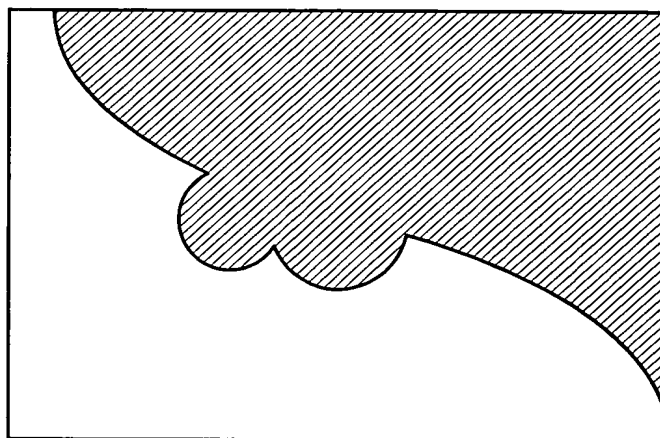


FIG. 16B

17/44

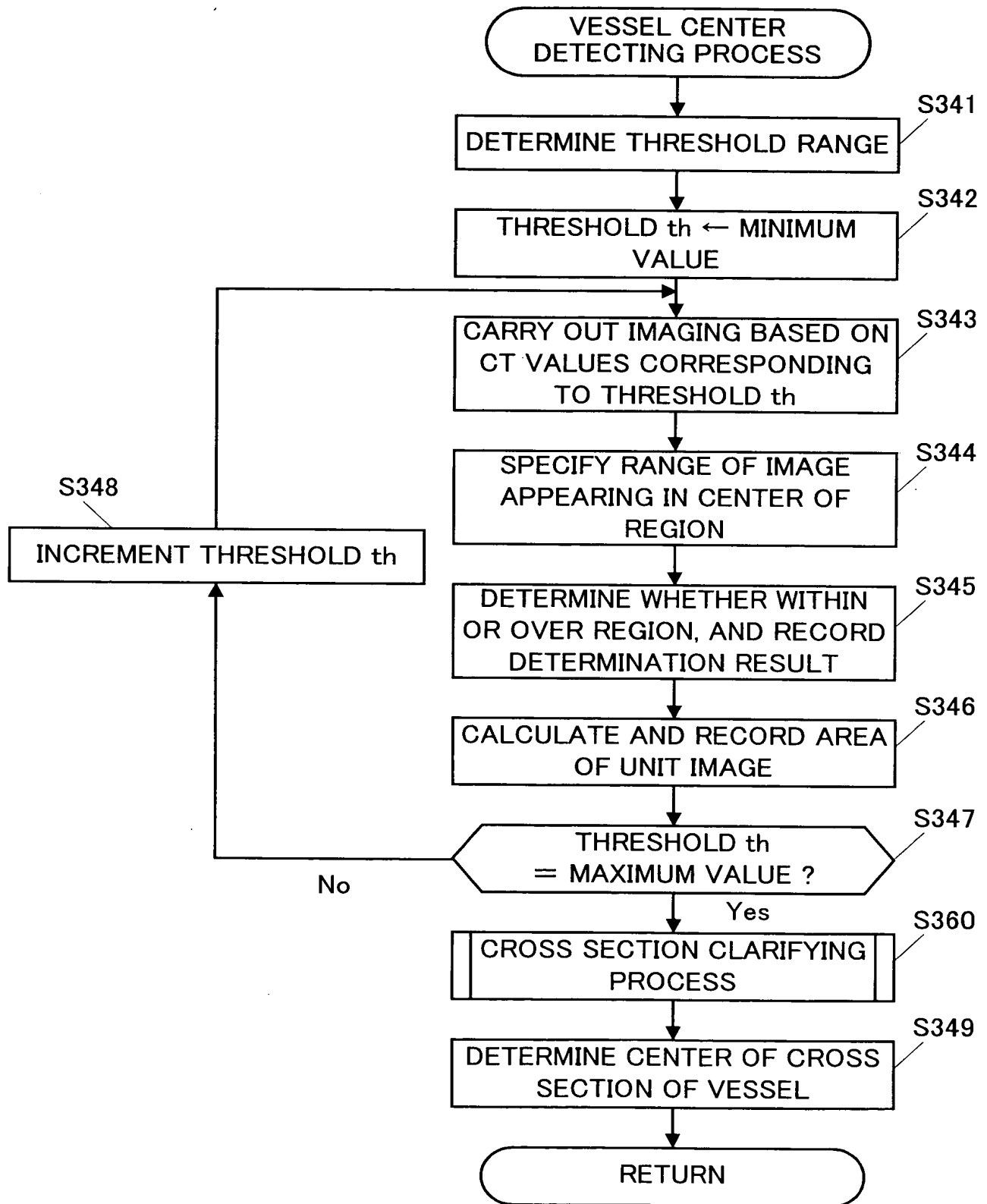


FIG.17

18/44

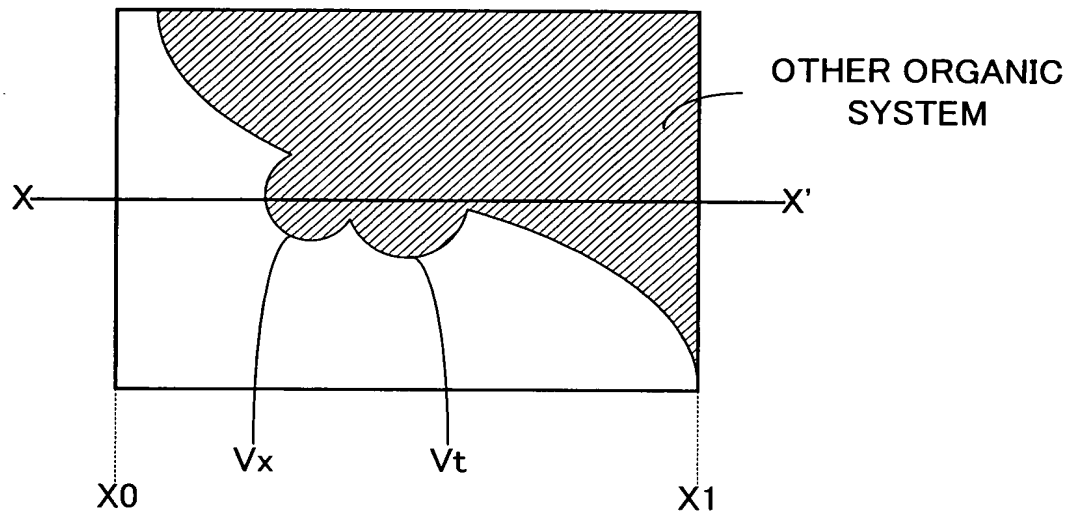


FIG. 18A

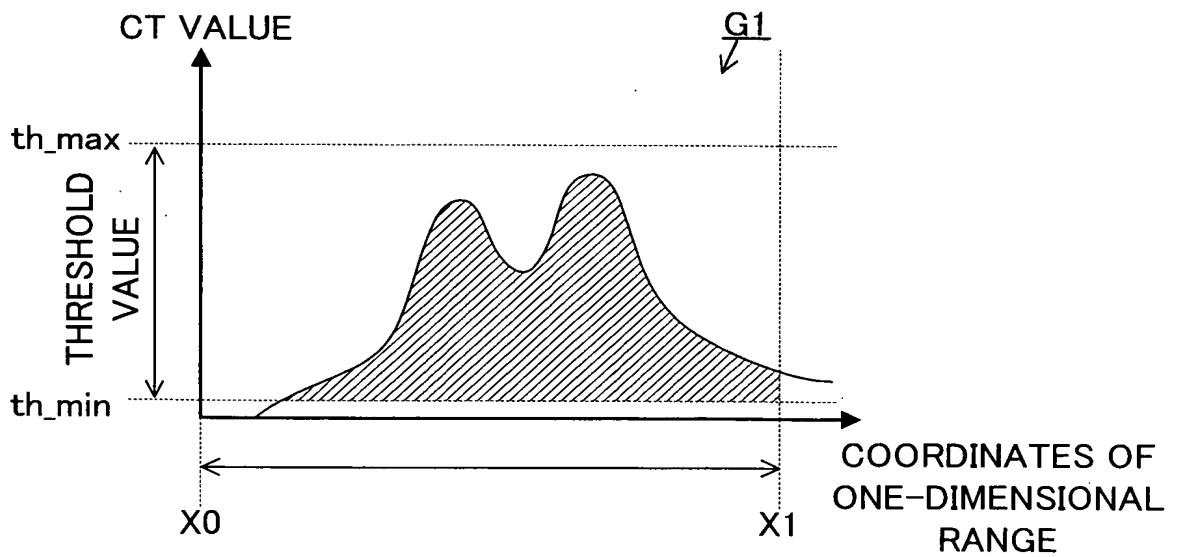


FIG. 18B

19/44

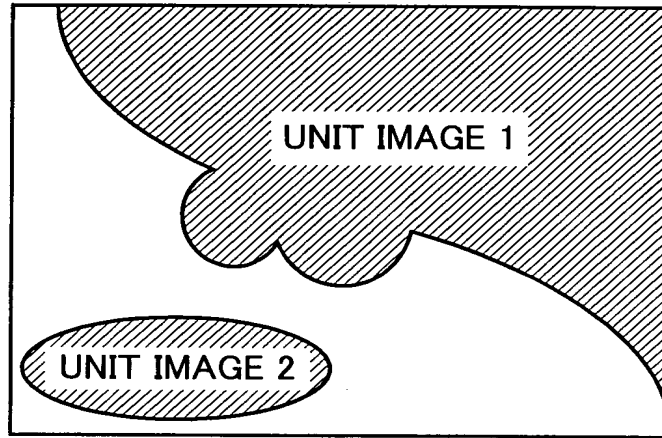


FIG.19A

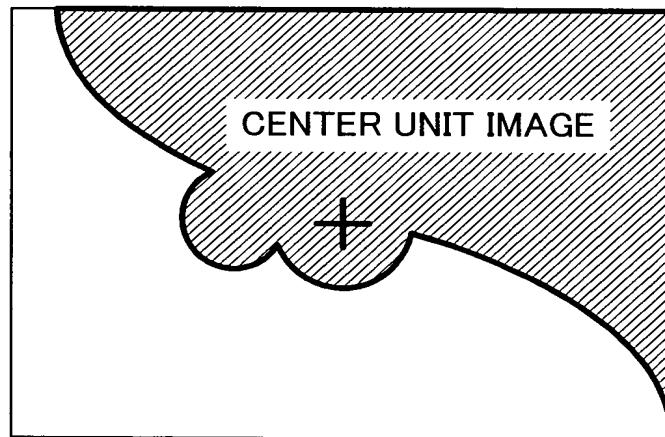


FIG.19B

20/44

THRESHOLD ATTRIBUTE TABLE

THRESHOLD	WITHIN REGION ?	AREA VALUE
th_min	NO	1000
th_min+1	NO	900
th_min+2	NO	800
th_min+3	NO	700
⋮	⋮	⋮
th_max-3	YES	30
th_max-2	YES	20
th_max-1	YES	10
th_max	YES	0

FIG.20

21/44

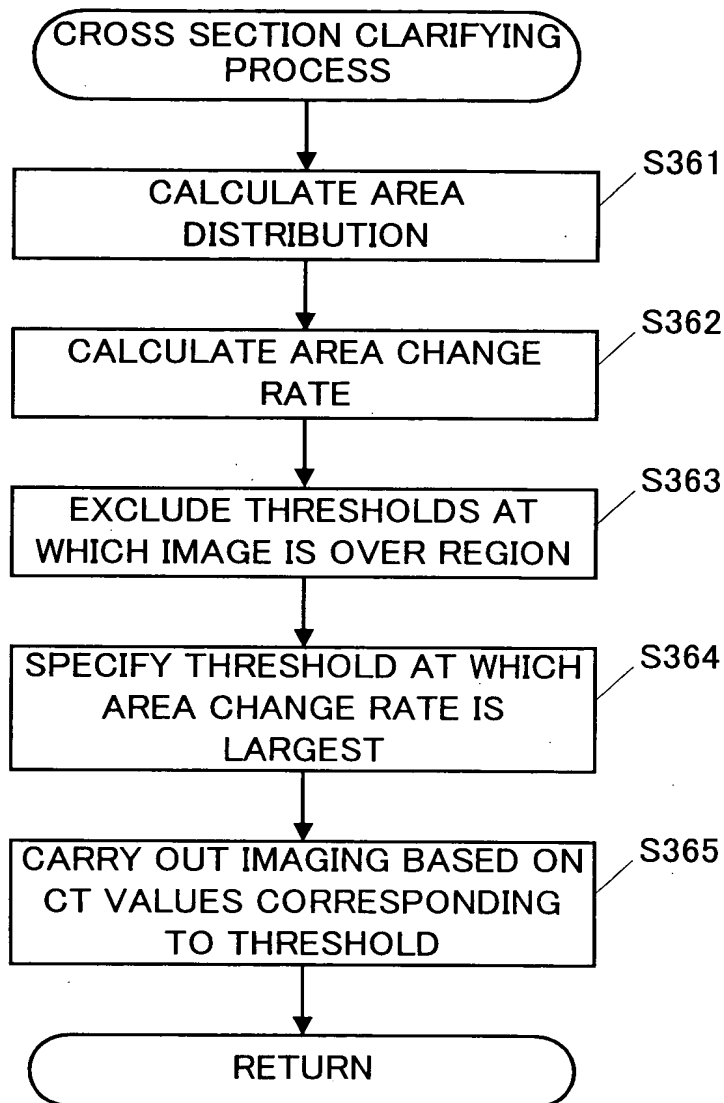


FIG.21

22/44

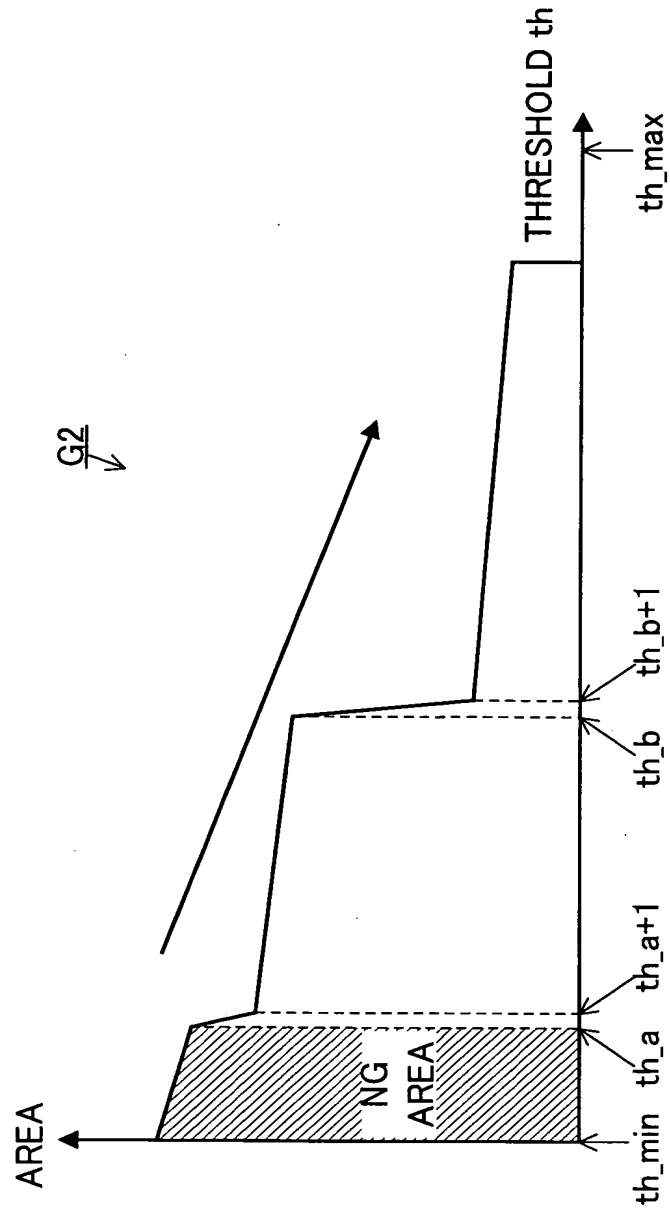


FIG.22

23/44

IN CASE OF
THRESHOLD th_a

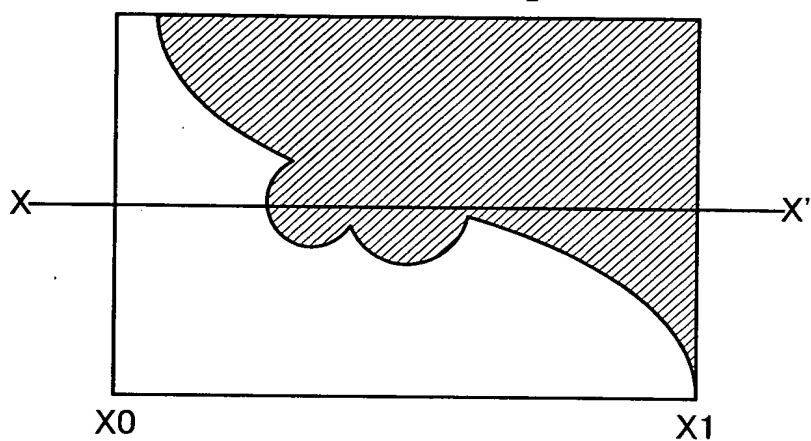


FIG.23A

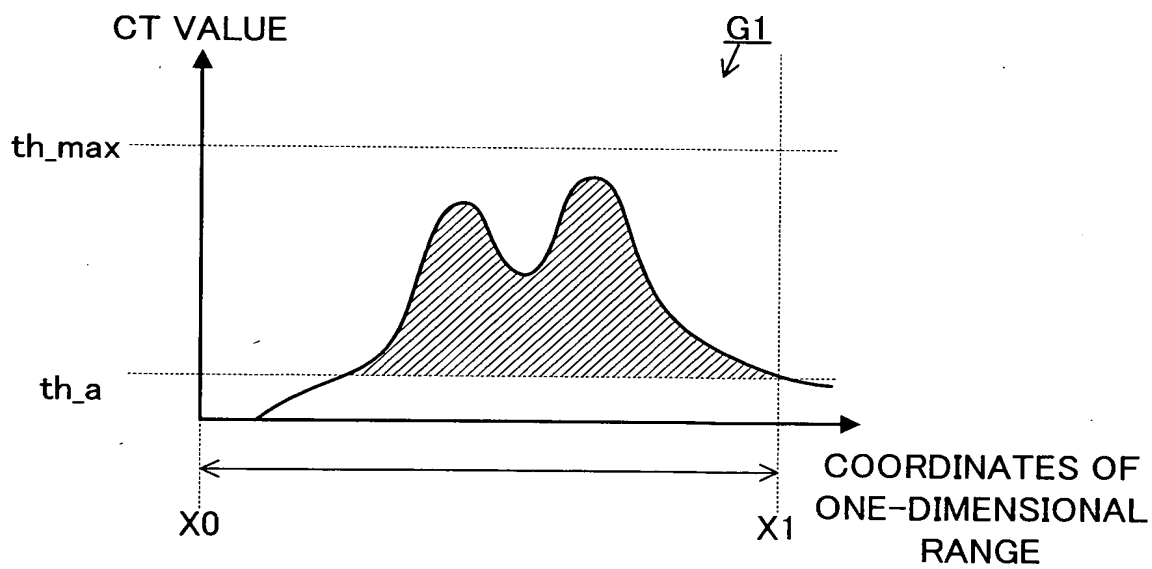


FIG.23B

24/44

IN CASE OF
THRESHOLD th_{a+1}

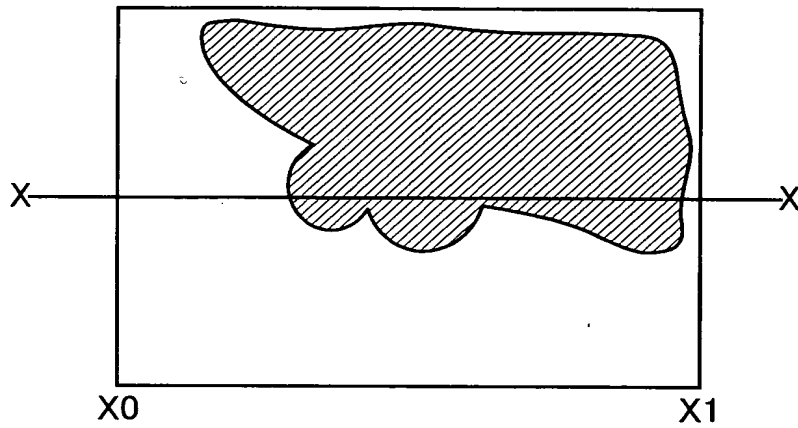


FIG.24A

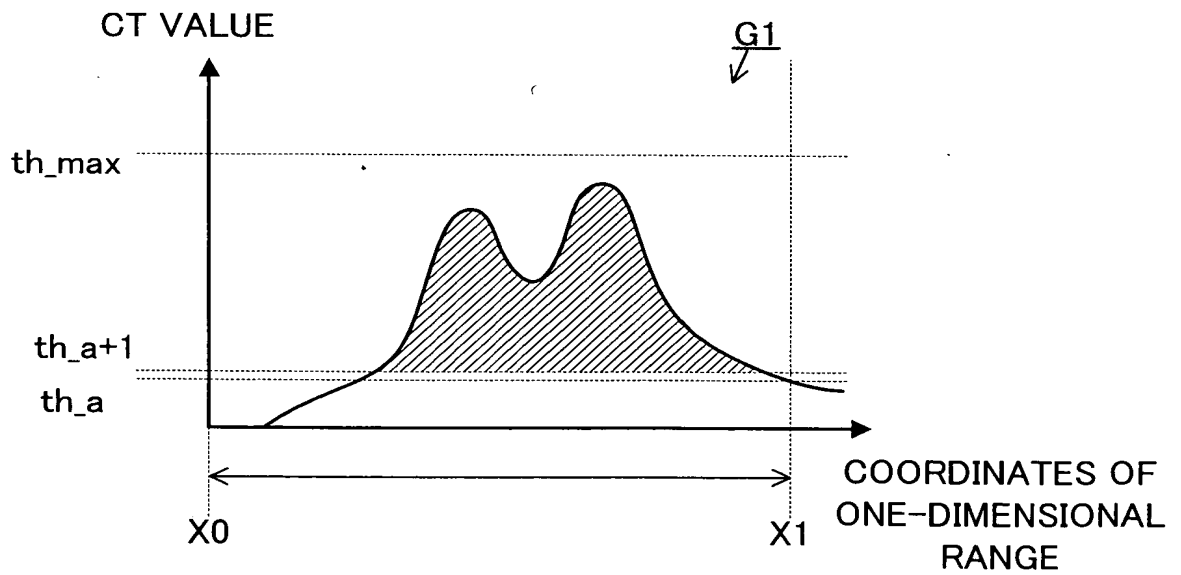


FIG.24B

25/44

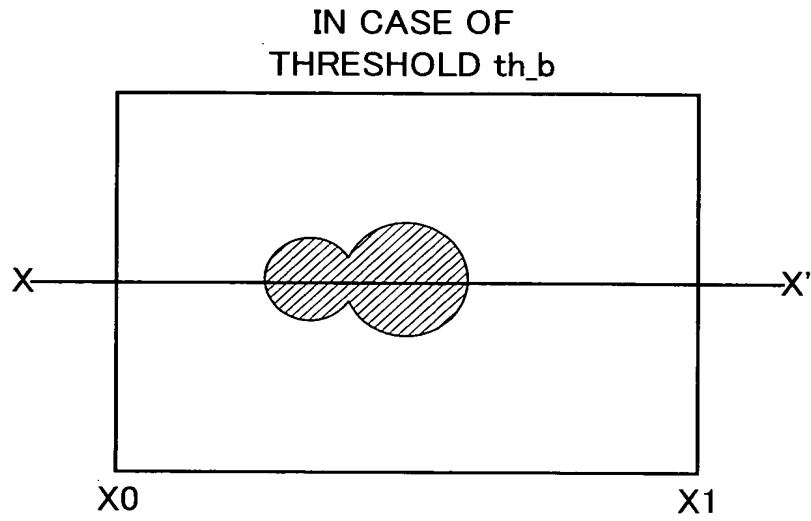


FIG.25A

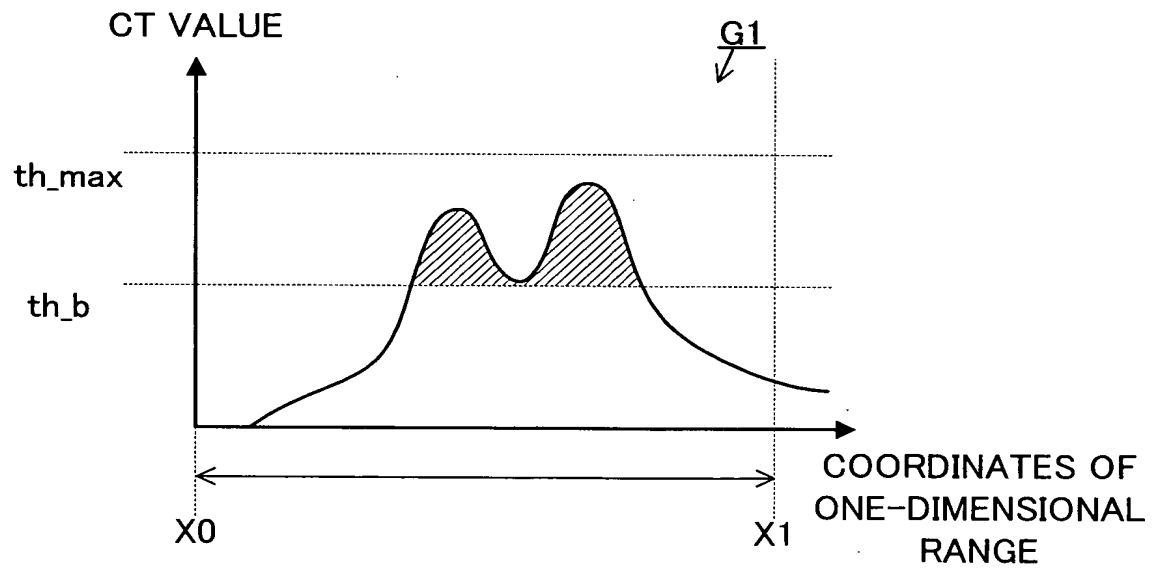


FIG.25B

26/44

IN CASE OF
THRESHOLD th_{b+1}

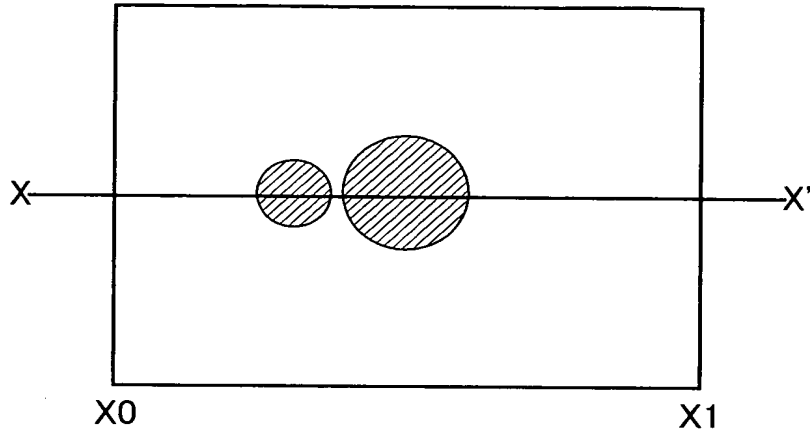


FIG.26A

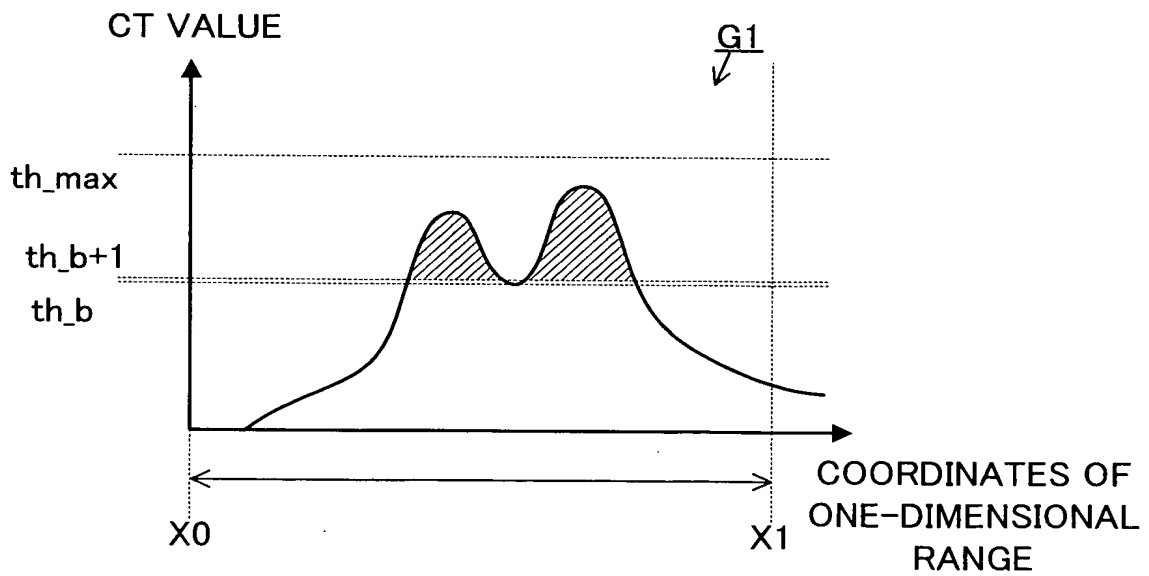


FIG.26B

27/44

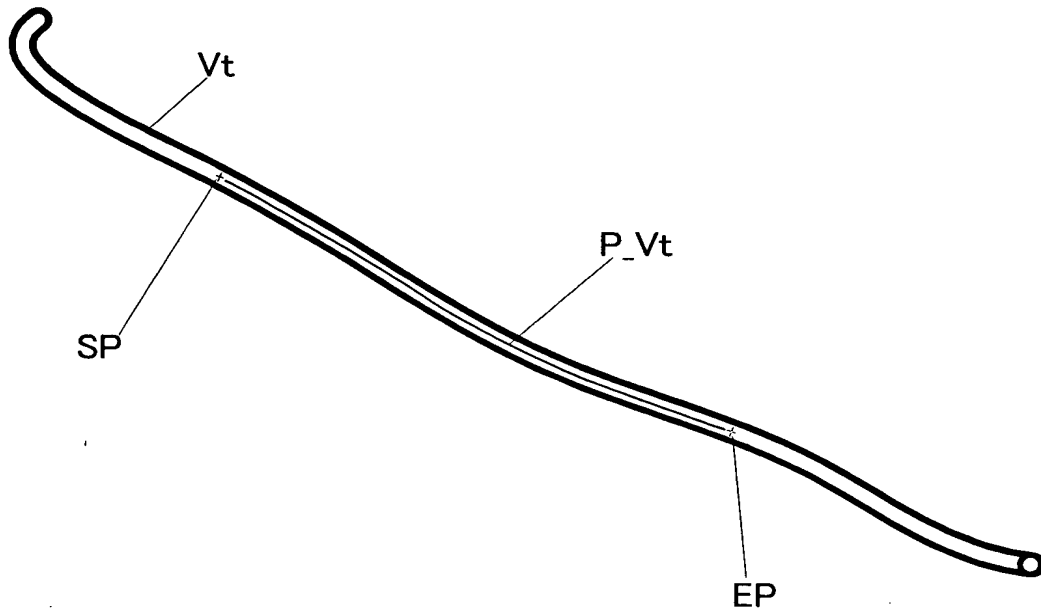
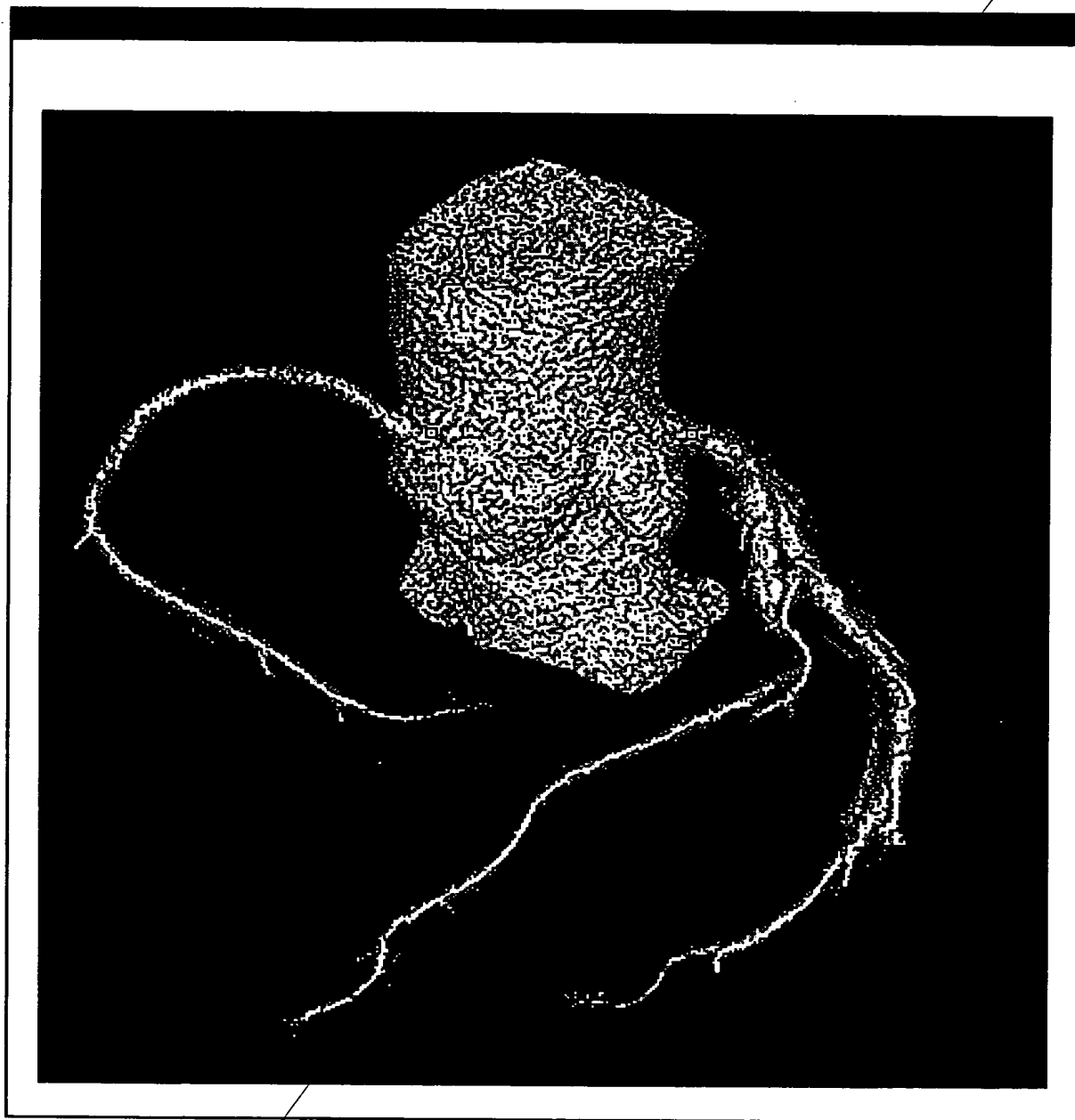


FIG.27

28/44

MW



Mim

FIG.28

BEST AVAILABLE COPY

29/44

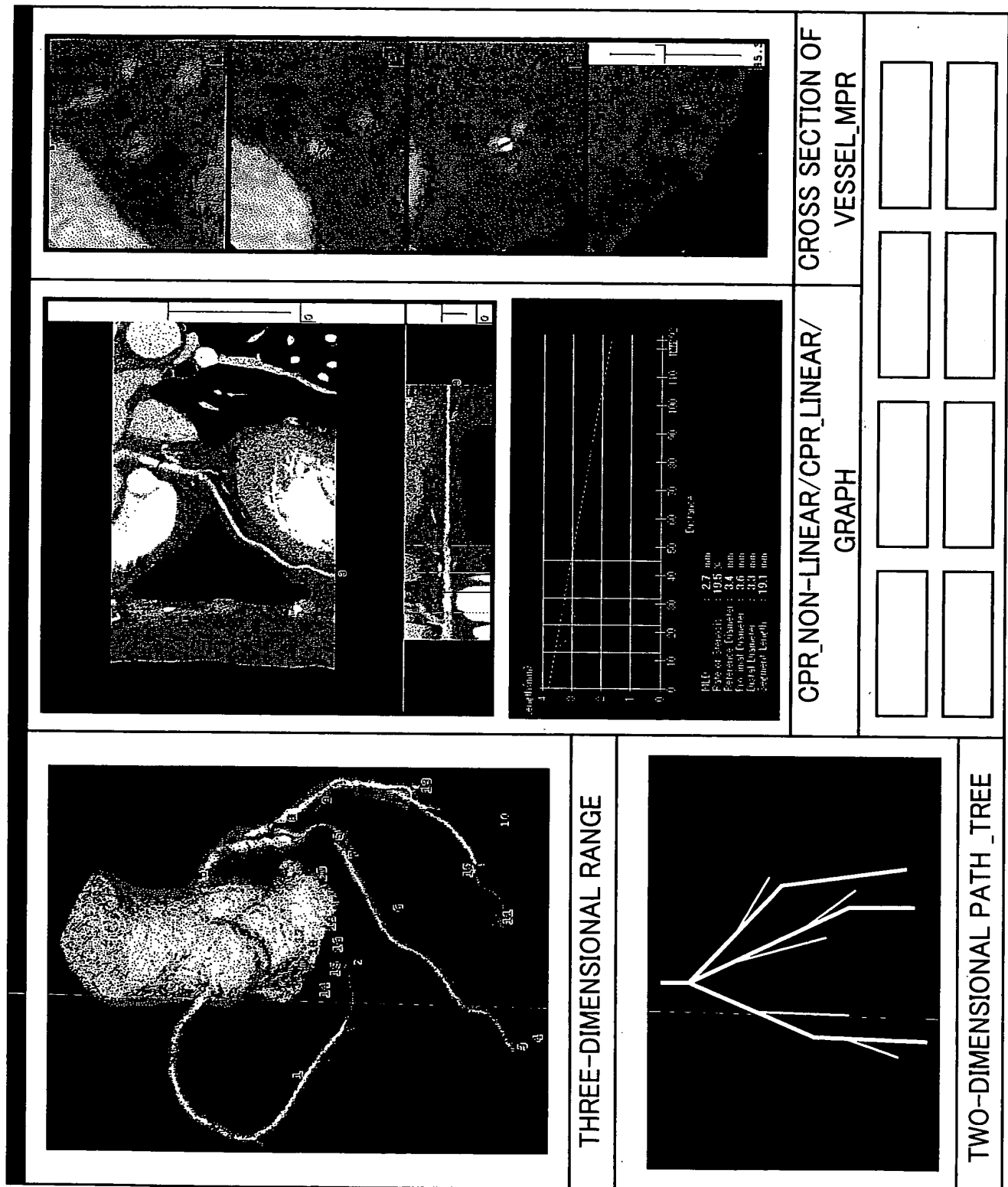


FIG.29

BEST AVAILABLE COPY

30/44

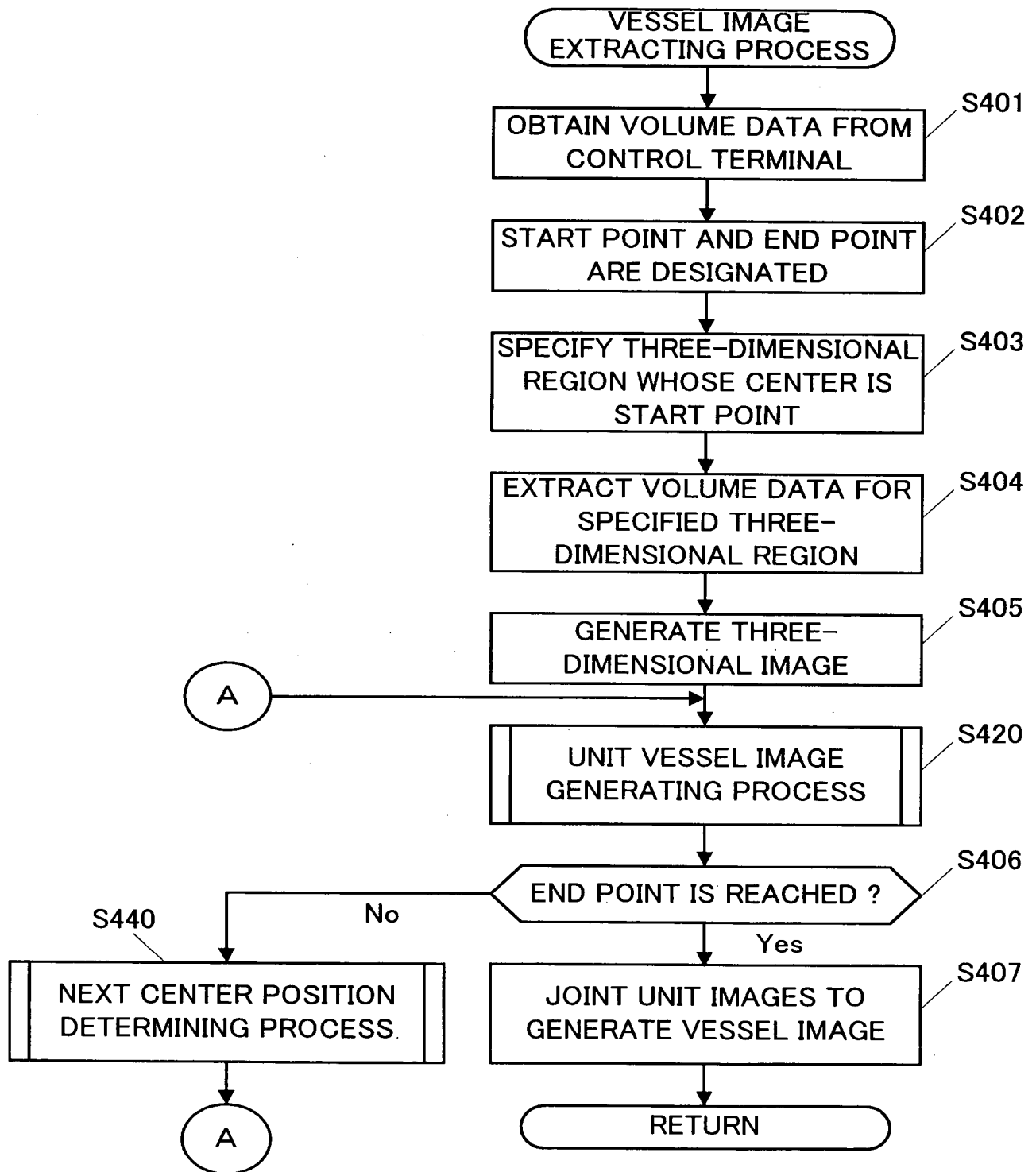


FIG.30

31/44

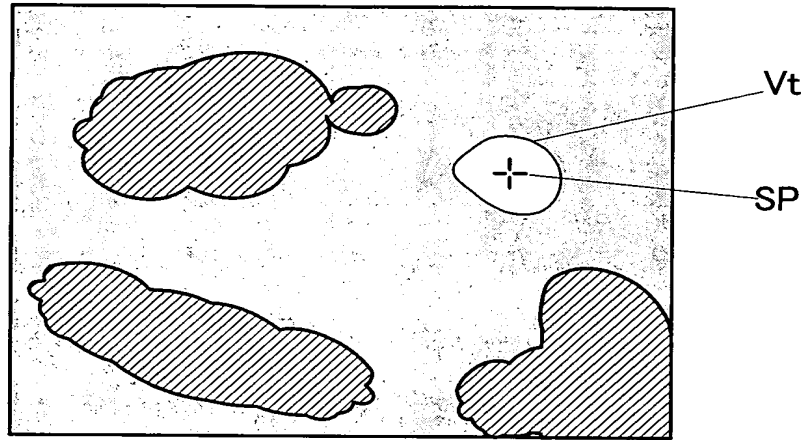


FIG. 31A

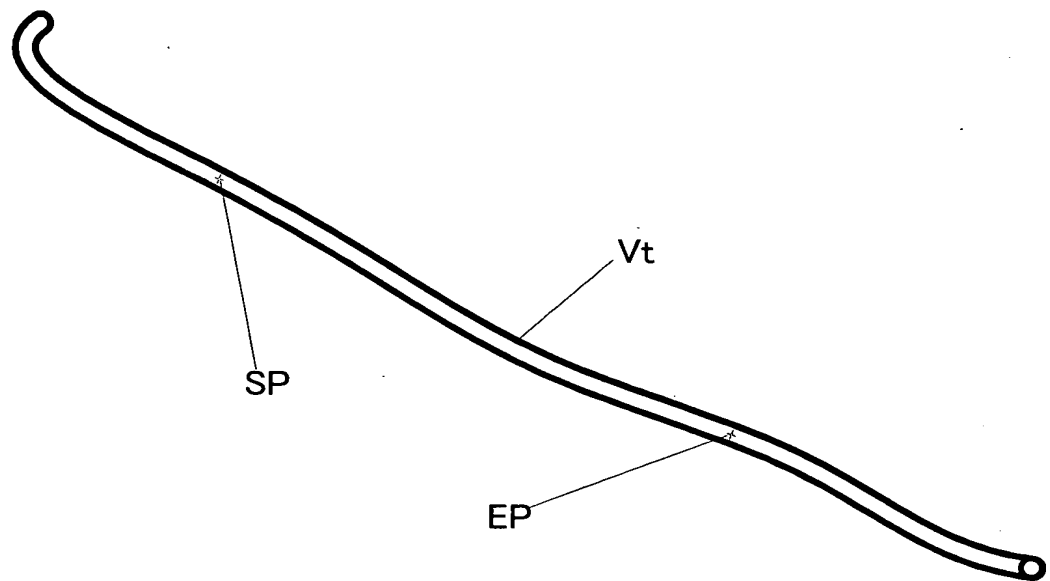


FIG. 31B

32/44

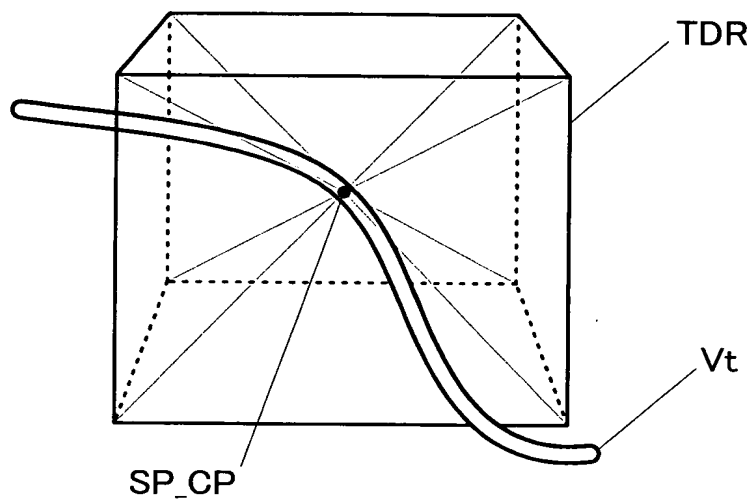


FIG. 32A

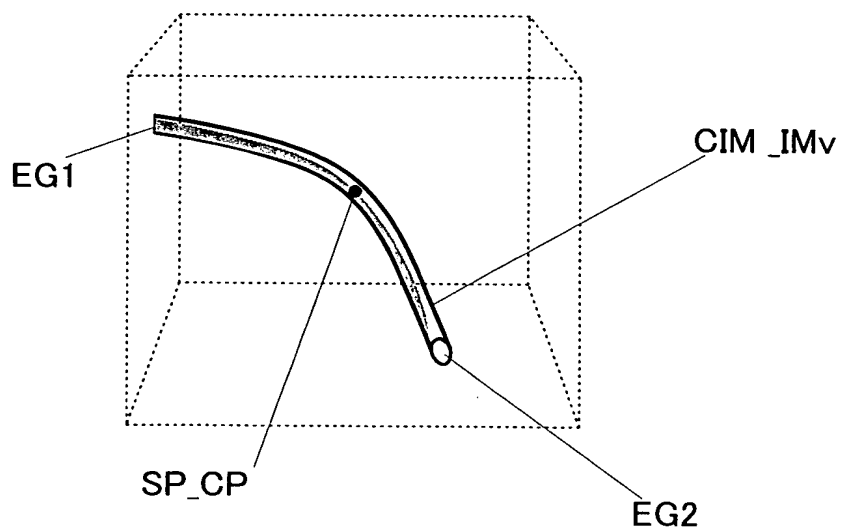


FIG. 32B

33/44

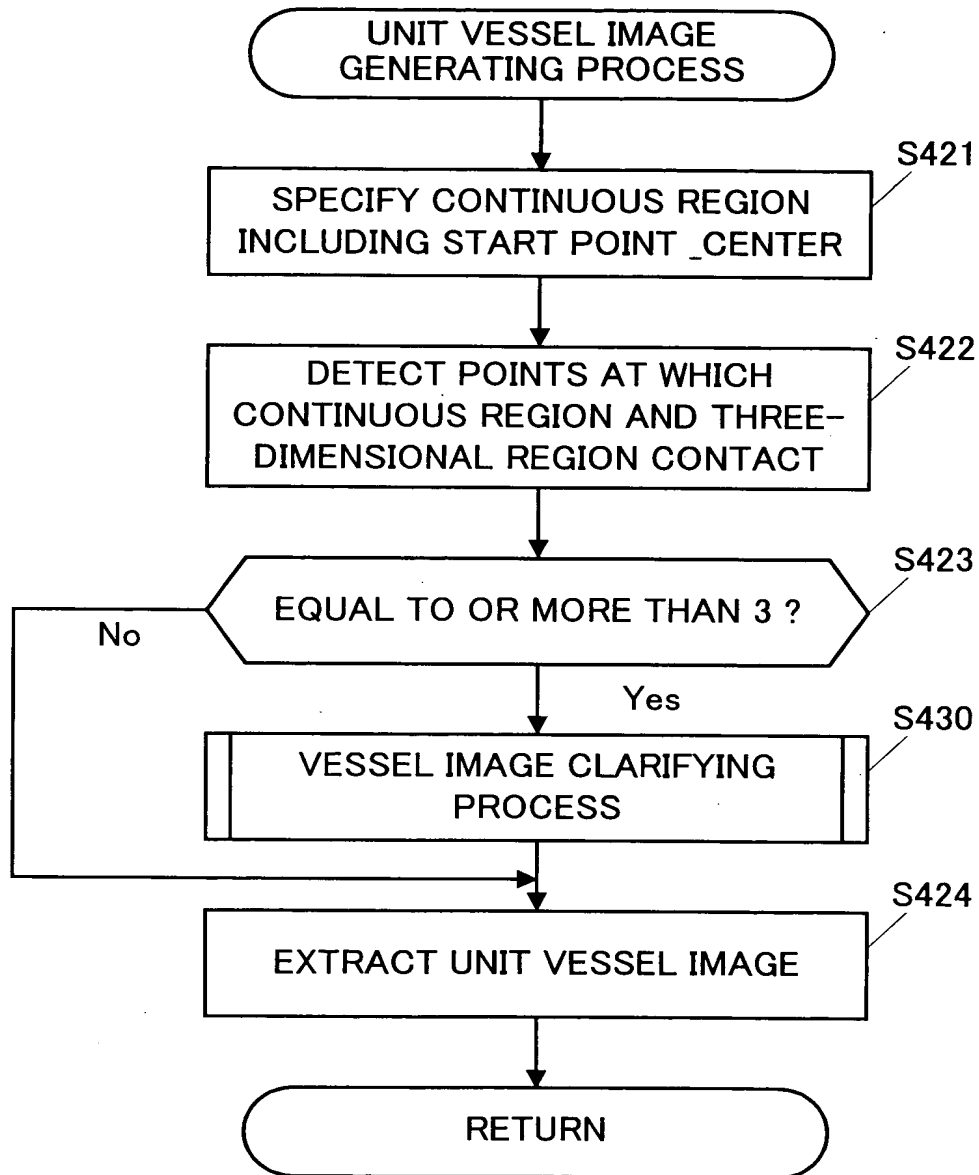


FIG.33

34/44

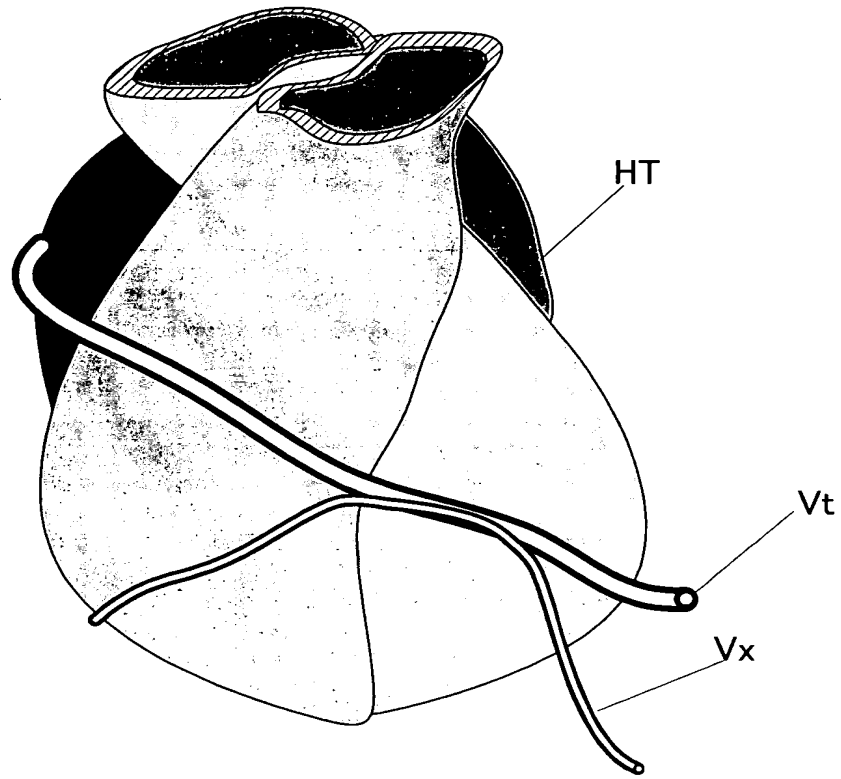


FIG.34

35/44

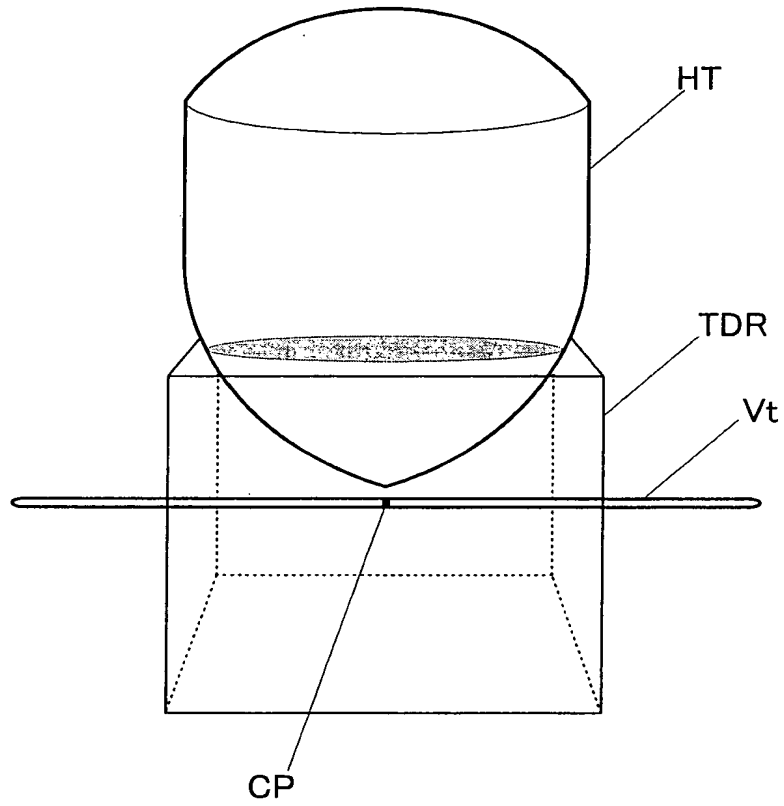


FIG. 35A

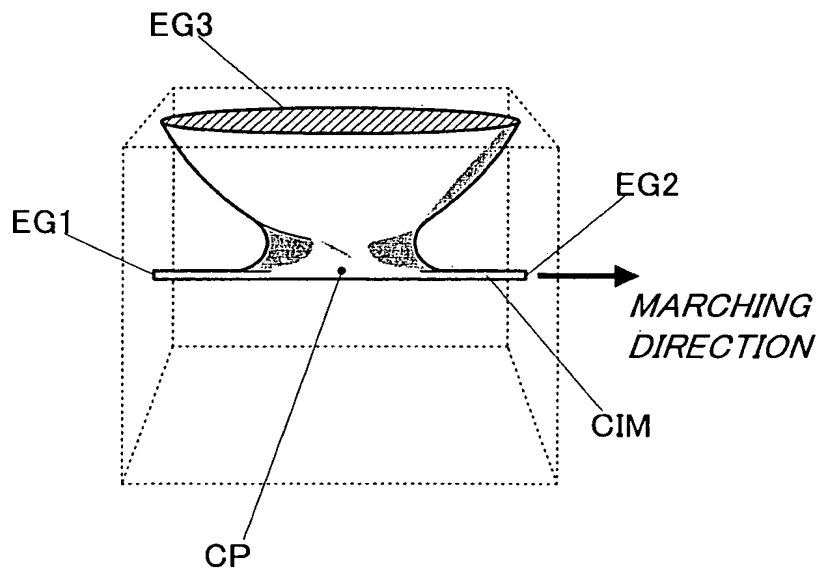


FIG. 35B

36/44

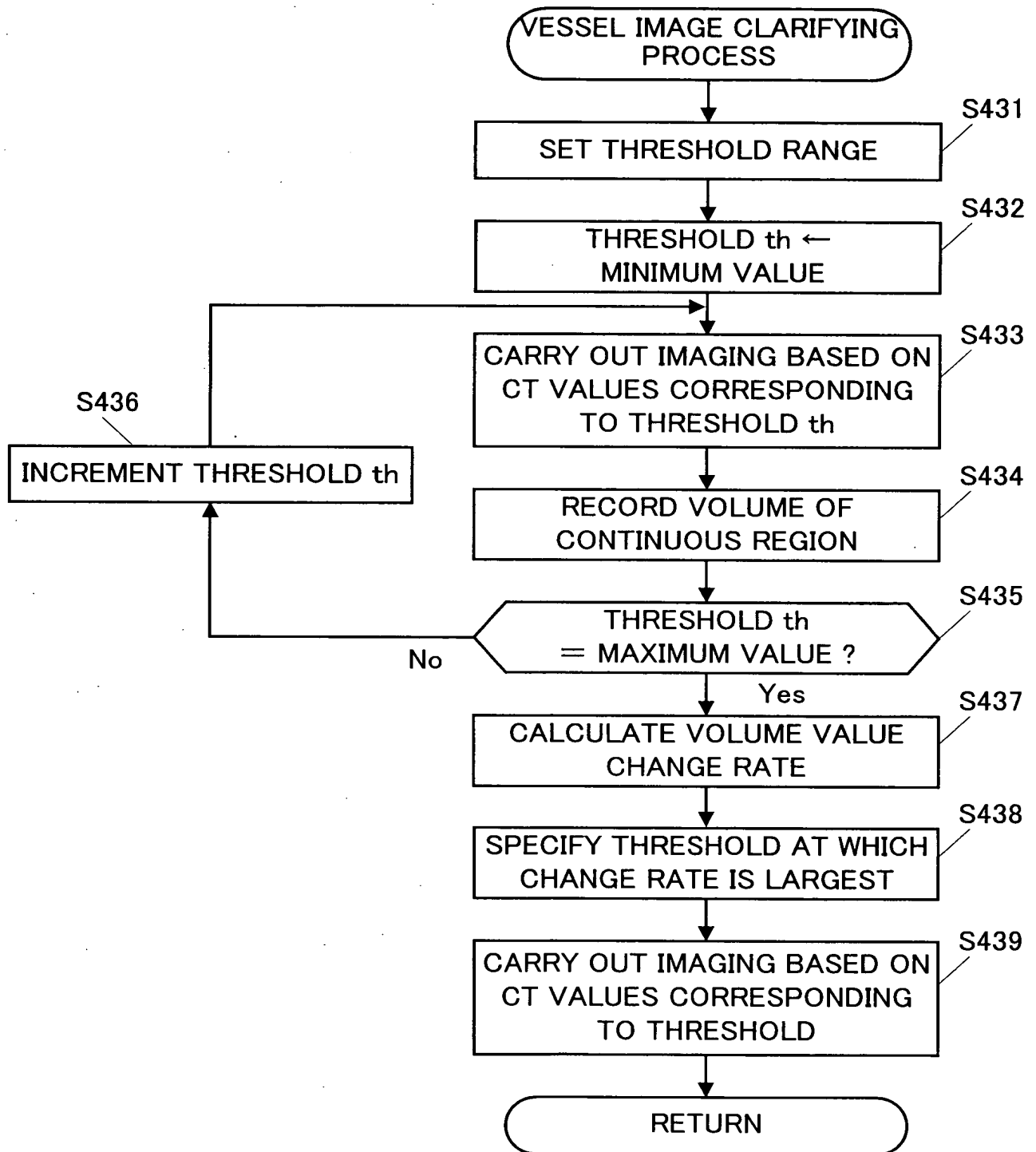


FIG.36

37/44

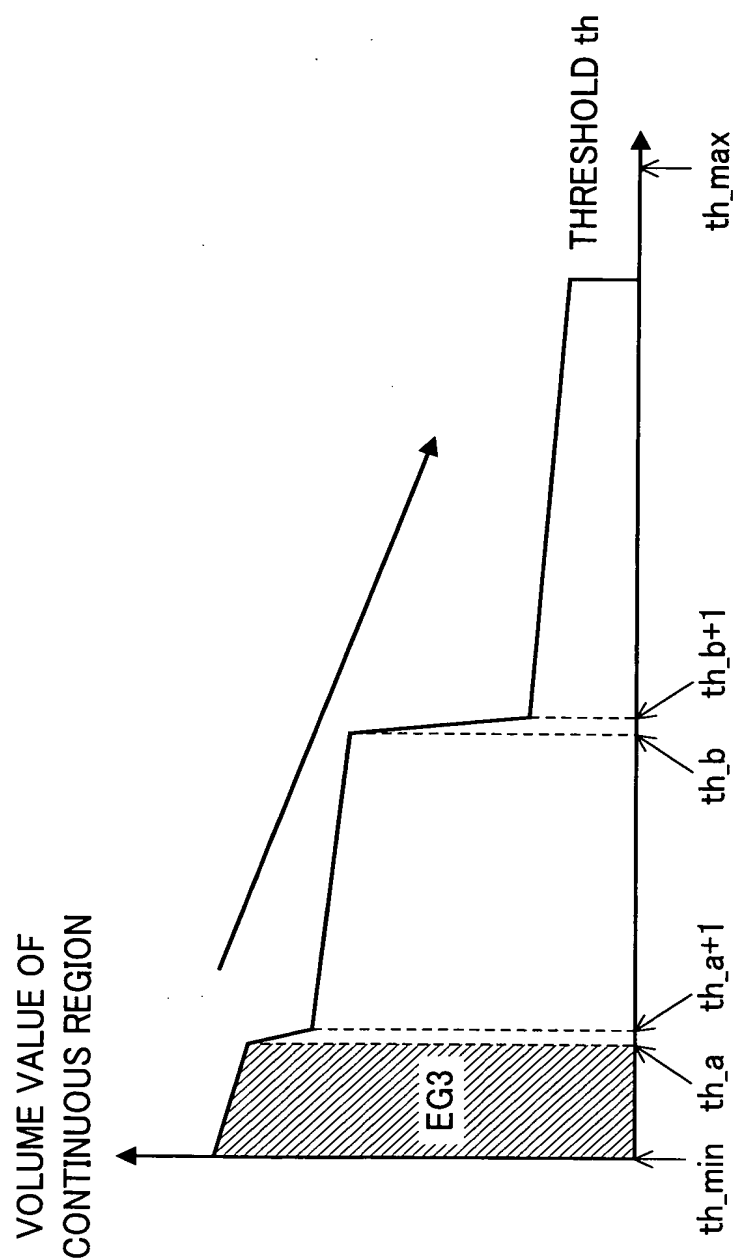


FIG.37

38/44

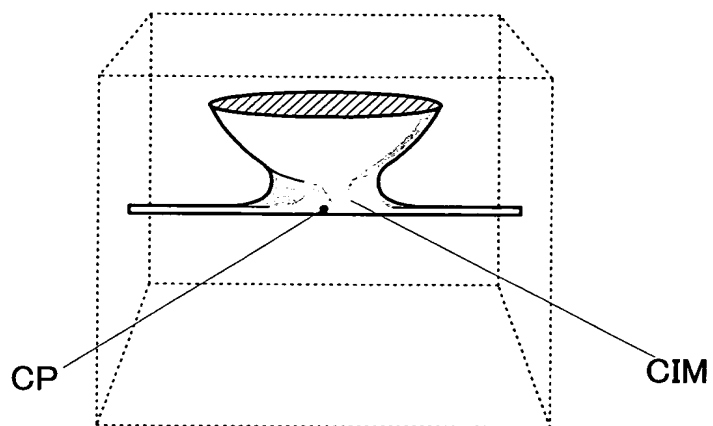


FIG.38A

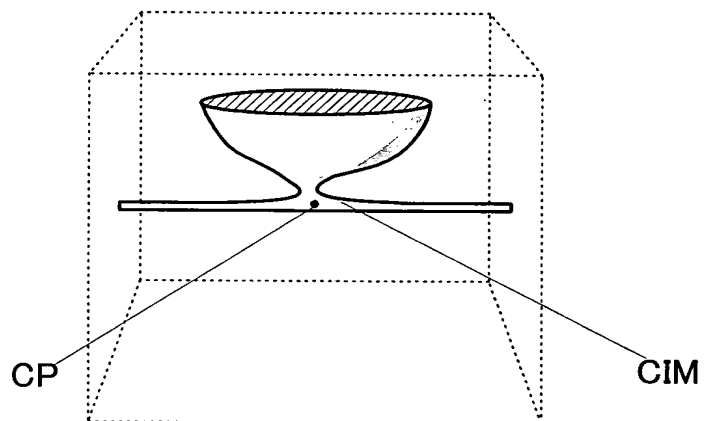


FIG.38B

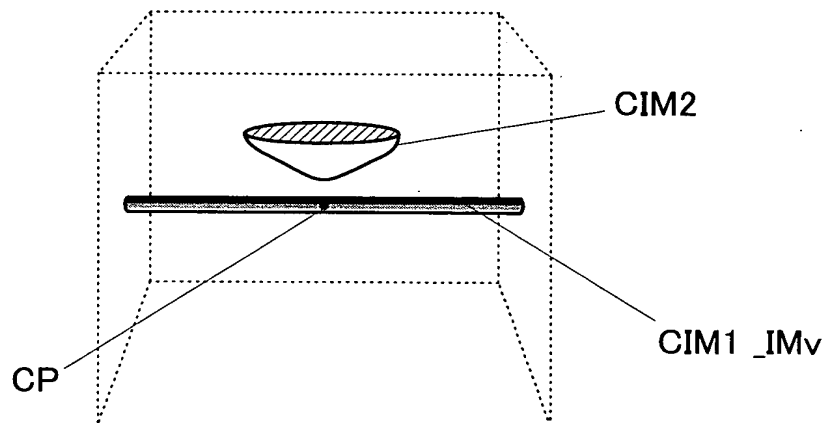


FIG.38C

39/44

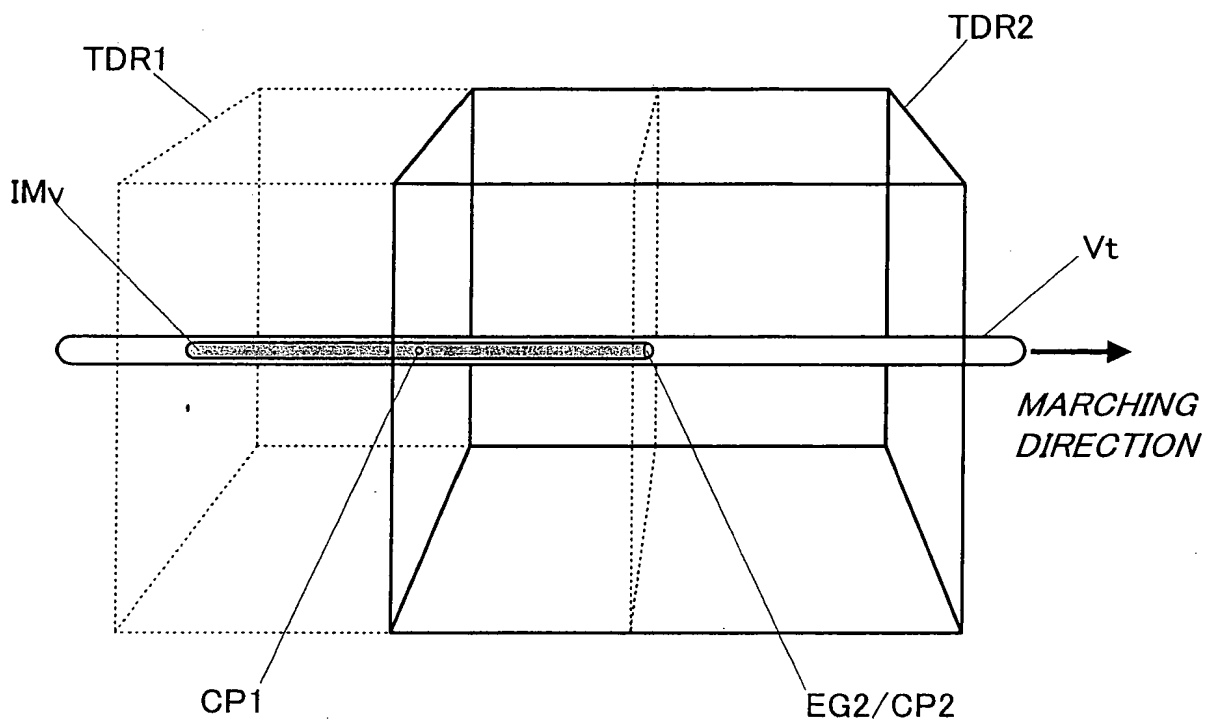


FIG.39A

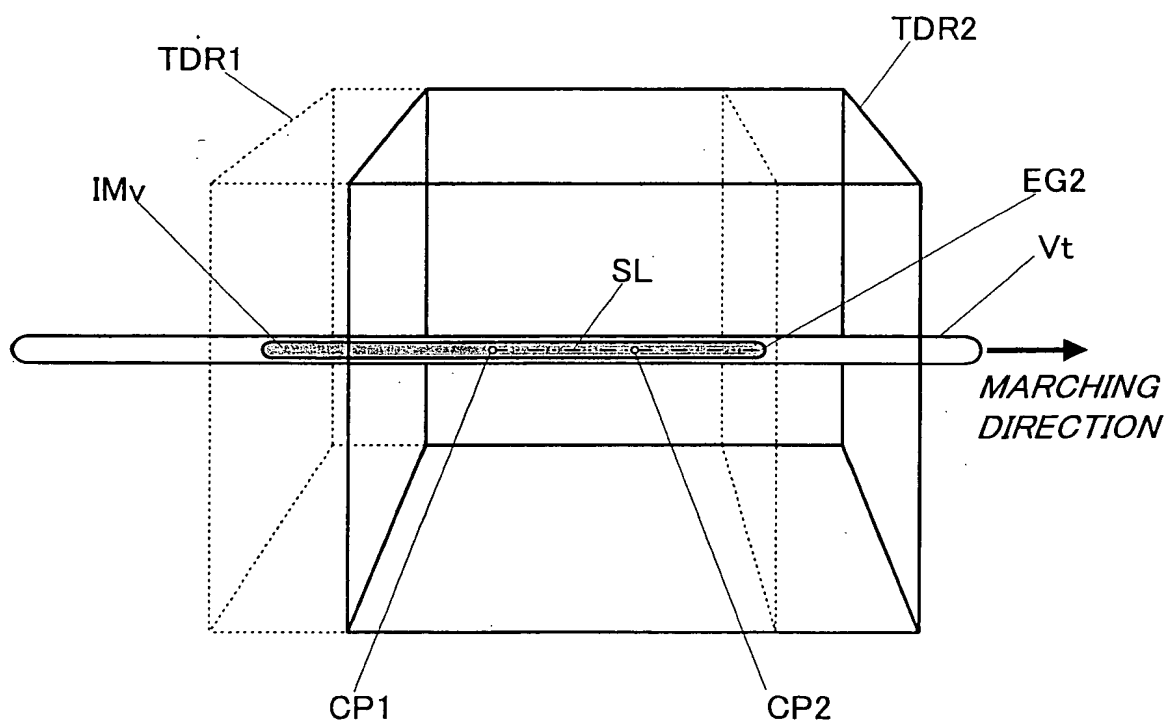


FIG.39B

40/44

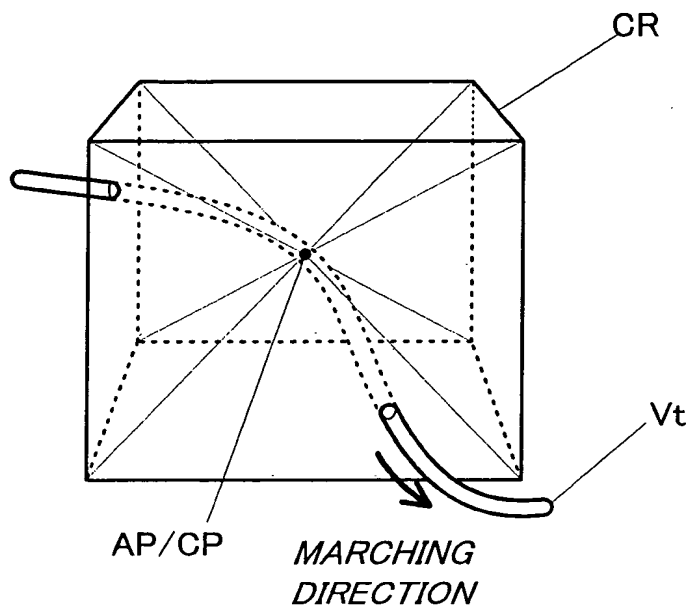


FIG. 40A

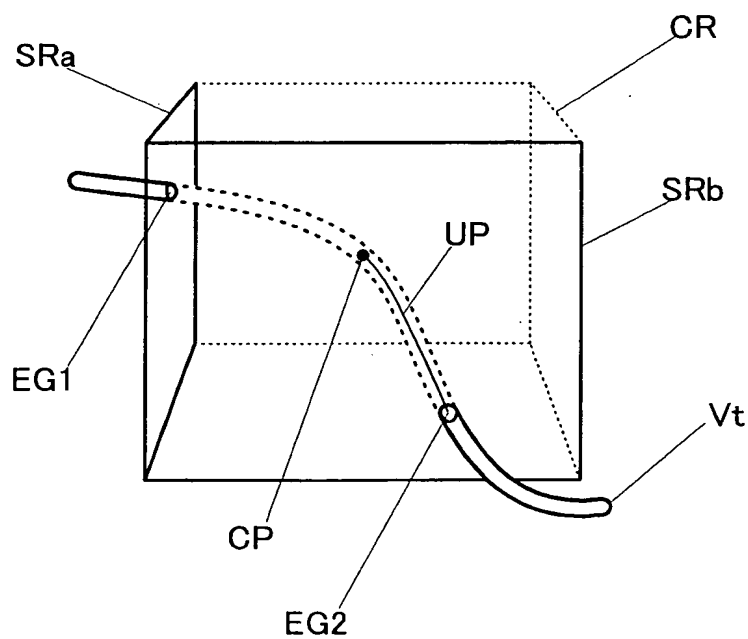


FIG. 40B

41/44

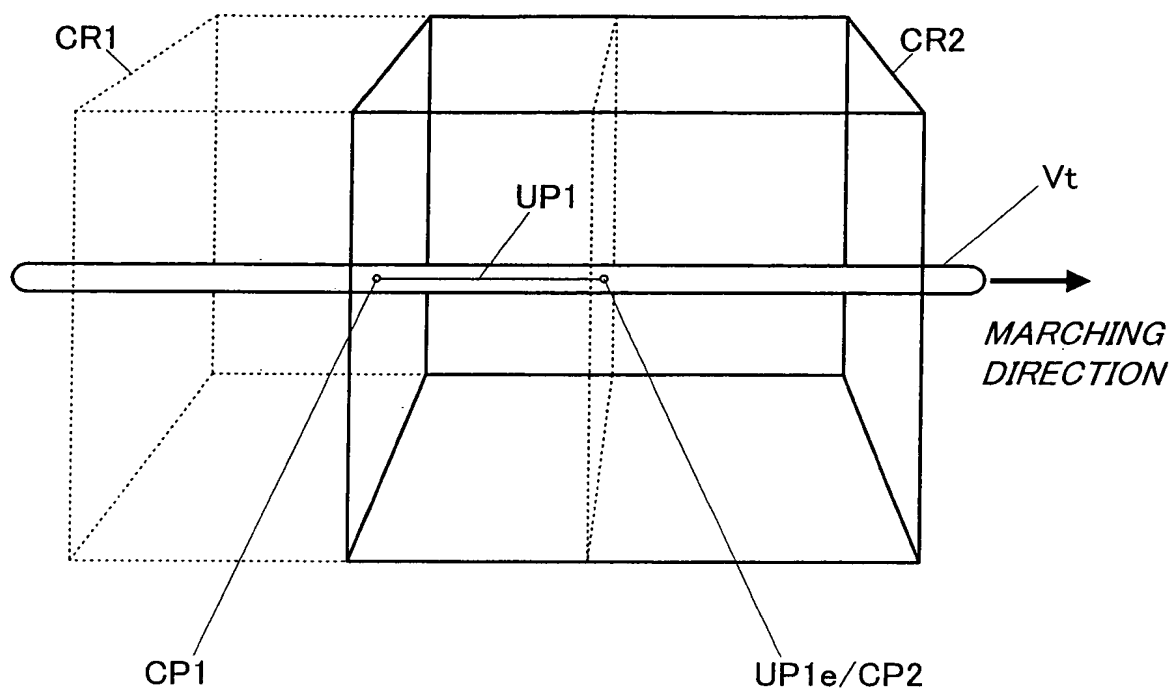


FIG. 41A

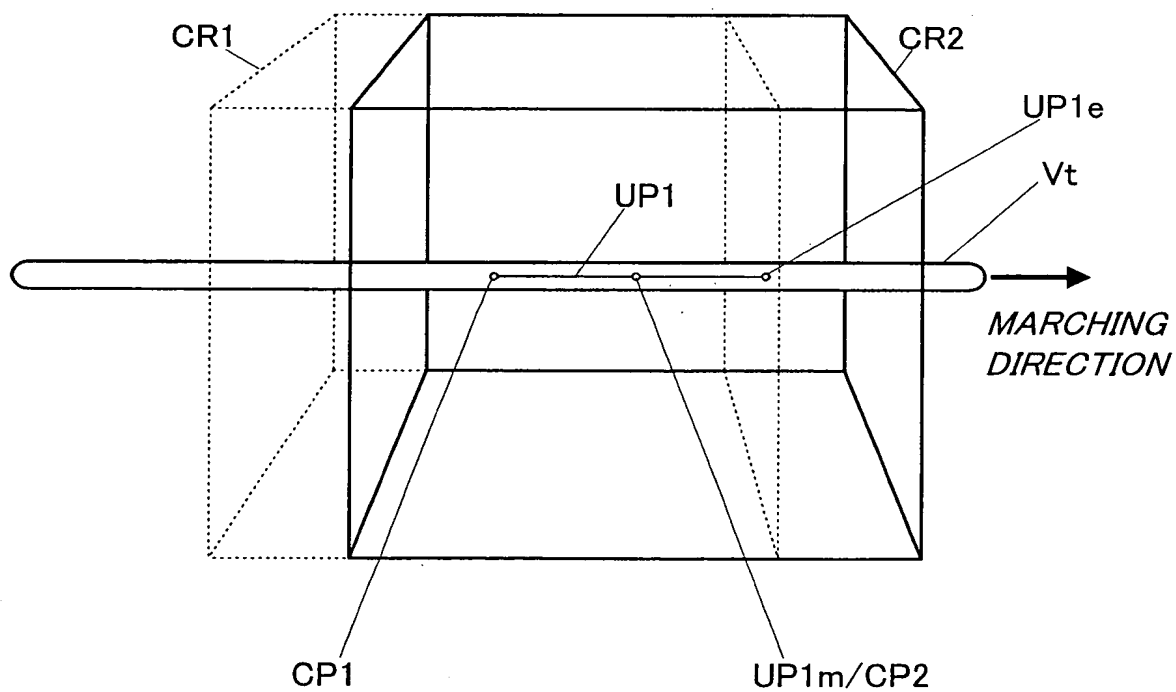


FIG. 41B

42/44

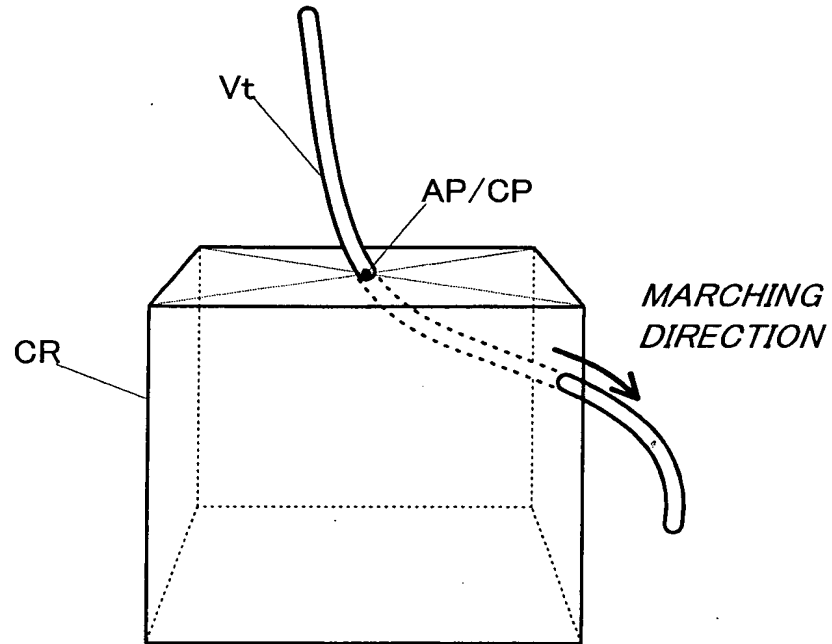


FIG. 42A

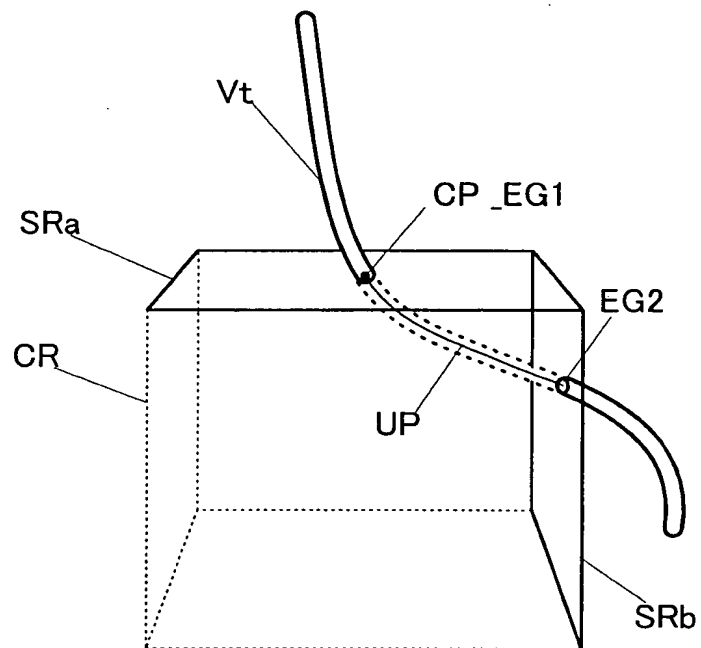


FIG. 42B

43/44

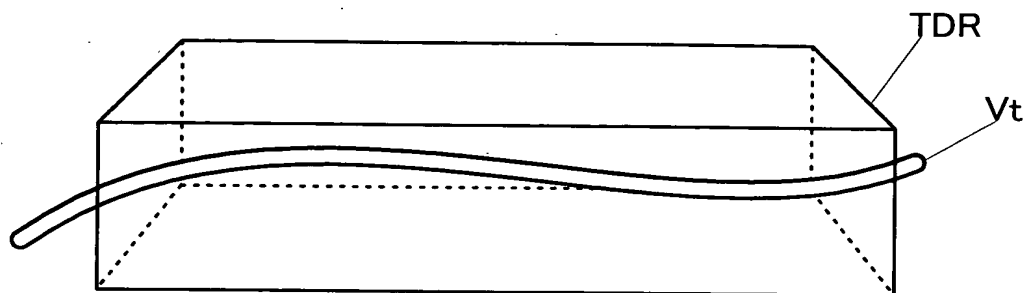


FIG. 43A

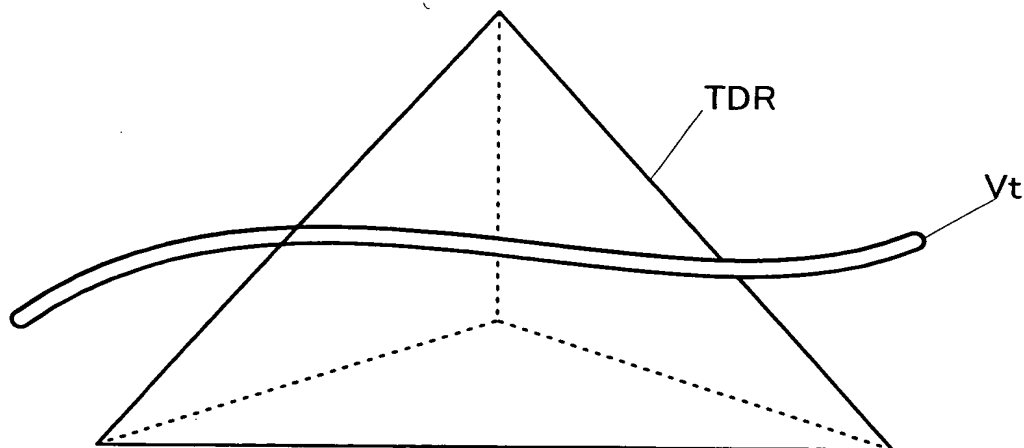


FIG. 43B

44/44

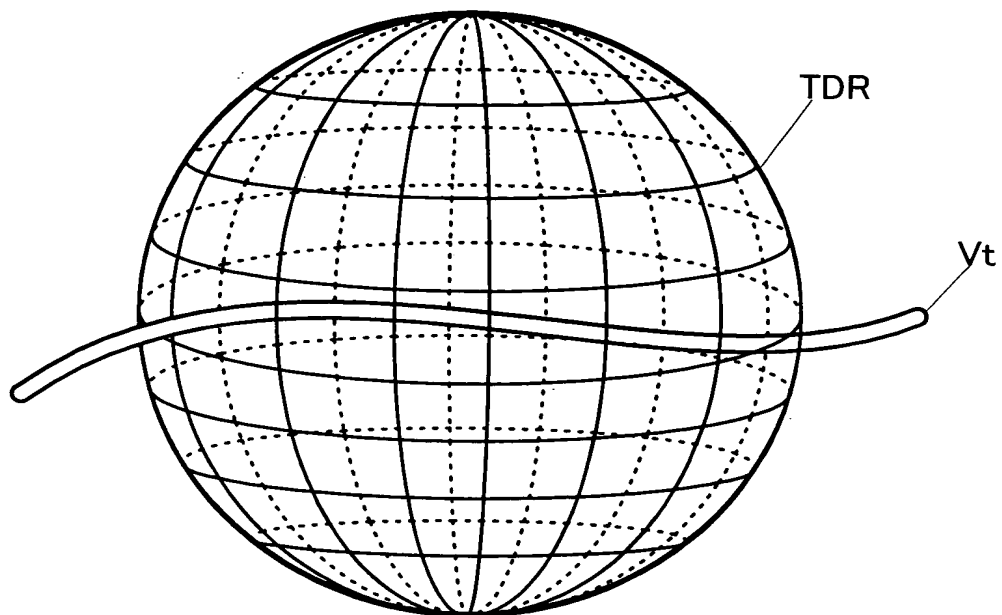


FIG. 44A

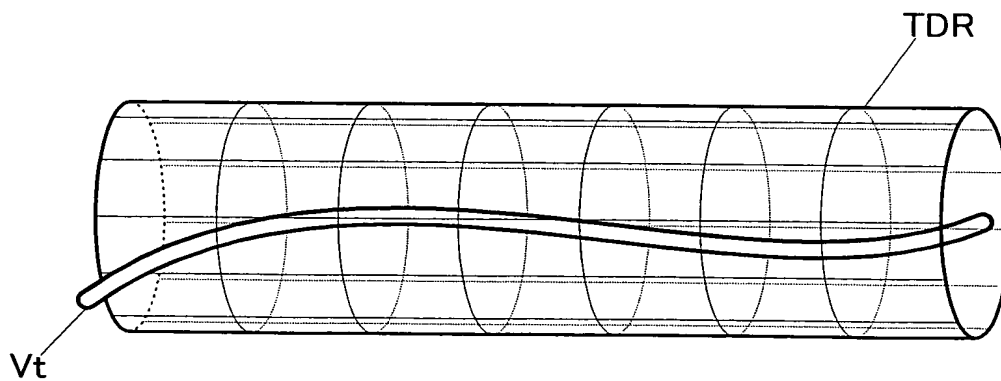


FIG. 44B